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Garden Book

22nd EDITION

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U. S. Department of Agriculture.

Meyer Seeds

Vegetable
Seed Trials

1910



1932

The Meyer Seed Co.

34-36 LIGHT STREET
BALTIMORE, MD.

PHONES • PLAZA 6170 - 6171.

Vegetable Seed Trials
JAN 28 1932

M.-S. Lawn Grass Seed Mixtures

Backed by a 21-year reputation



M.-S. ROLAND PARK LAWN GRASS is made from our own formula, and composed of grasses which are adapted for the purposes of producing lawns which retains its rich green color and velvet appearance throughout the entire summer and fall. The quantity required for making a new lawn is 75 to 100 pounds per acre, or for renovating old lawns, 40 to 50 pounds per acre. For a plot 10x20 or 200 square feet, one pound is required for a new lawn, or about one-half pound for renovating. 1 lb. 35c; 3 lbs. \$1.00; 5 lbs. \$1.60; 10 lbs. \$3.15; bushel of 30 lbs. \$9.00.

M.-S. SHADY NOOK GRASS—The grasses used in making this special mixture are only those that are well adapted for growing in shade. 1 lb. 35c; 3 lbs. \$1.00; 5 lbs. \$1.60; 10 lbs. \$3.15; bushel of 30 lbs. \$9.00.

M.-S. PLEASURE GROUND MIXTURE—This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. 1 lb. 35c; 3 lbs. \$1.00; 5 lbs. \$1.60; 10 lbs. \$3.15; bushel of 30 lbs. \$9.00.

M.-S. TERRACE MIXTURE—There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains. 1 lb. 35c; 3 lbs. \$1.00; 5 lbs. \$1.60; 10 lbs. \$3.15; bushel of 30 lbs. \$9.00.

M.-S. SEASHORE LAWN GRASS—Is all that its name implies. 1 lb. 50c; 3 lbs. \$1.25; 5 lbs. \$2.25; 10 lbs. \$4.25; bushel of 30 lbs. \$12.00.

R. S. MEADOW GRASS (Poa Trivialis)—For shady situations in parks and densely shaded lawns, this grass has no superior. It produces a firm and attractive turf where few other grasses can exist. A fine grass for dry ground under bay windows, overlapping roofs and shady side yards. 1 lb. 50c; 5 lbs. \$2.25.

George Baker, Superintendent of Lorraine Cemetery tells us that our M.-S. Roland Park grass seed is all that we claim it to be. He is well satisfied with the results and can speak highly of it.

SOUTH GERMAN BENT GRASS—Especially adapted for putting greens and wherever a velvet-like lawn is wanted. 1 lb. \$1.

WHITE CLOVER— $\frac{1}{4}$ lb. 20c; $\frac{1}{2}$ lb. 35c; 1 lb. 60c.

M.-S. PUTTING GREEN MIXTURE—There is a steady demand for a reliable mixture of grass seeds from those who have found Bent Greens more liable to fungus attack than Greens composed of mixed grasses, and it is to meet this demand that our mixture is prepared.

Our Putting Green Mixture contains a liberal quantity of German Bent in combination with the finest grades of Kentucky Blue Grass and Fancy Red Top, and will give fine satisfaction on green or lawn. Sow 8 to 10 lbs. to 1,000 sq. ft. $\frac{1}{2}$ lb. 40c; 1 lb. 75c; 5 lbs. \$3.50; 10 lbs. \$6.75; 20 lbs. \$13.00.

M.-S. FAIRWAY MIXTURE—A mixture of grasses for fairways is to be preferred to any one grass and our fairway mixture will give splendid satisfaction wherever used. Where quick results are desired we recommend this mixture. 1 lb. 40c; 5 lbs. \$1.75; 10 lbs. \$3.50; 30 lbs. \$10.00.

WEED AND CRABGRASS CONTROL—To combat dandelions and many other weeds we recommend liberal applications of Sulphate of Ammonia.

To destroy crabgrass we find hard raking with steel rake, cutting very closely and removing the cuttings which contain the seed, very beneficial; also liberal applications of Revivo or 2 lbs. of Arsenate of lead mixed with 100 lbs. of your favorite lawn food; will rid your lawn of this pest in time.

We wish to emphasize the fact that one of the important essentials for success in building lawns, lies in the abundant use of Lawn Foods such as Vigoro, Loma, Fairway, Sheep Manure, Bone Meal, Peat Moss, Driconure.

Special price in larger quantities on application on grasses.

If wanted by parcel post add as to Zones.

The Shady Nook grass seed which I bought two weeks ago is almost ready to cut; never seen anything like it before.

W. C. ROLDE, Pikesville, Md.

PRICES ON GRASSES ARE SUBJECT TO MARKET FLUCTUATIONS



A Reproduction of Our Store Showing a Complete Display of Spring Flowering Bulbs.

A PANACEA FOR THE WANING DEPRESSION

If you a heavy sorrow have
That's making you feel sad,
Don't think that you can matters mend
By going to the bad.

If you, for instance, rob a bank,
I'm sure that you will find
That doing so can bring you no
Real lasting peace of mind.

Nor can it things improve if you
A blind man's tin should steal,
For even such an action can't
An aching sorrow heal.

But if you take to gardening,
That occupation can
Bring health of mind and body to
The very saddest man.

For there is that in gardening
Which seems to give a zest
To every noble impulse and
Shows manhood at its best.

That's why all gardeners are held
In such immense esteem,
For they are near perfection as
Man here can reach would seem.

—TOBY.

To Our Customers

Spring is just around the corner again, their will be more garden enthusiasts than ever, as so many more people are going in for flowers, vegetables and the raising of poultry in the back yard. When John and Mary go shopping for this commodity they look for the best and latest, that is why we are always on the lookout to secure new and proven varieties of Flowers and Vegetables as well as being on the alert for articles of Merit, to be added to our extensive line of Poultry Equipment and Horticultural Tools. It is our aim to supply only the best in Seeds, Bulbs, Plants, Horticultural Tools and Poultry Supplies. Our growing contracts for Seeds and Bulbs, are made with the most careful growers in localities where the different varieties succeed the best.

Although we take all possible care to supply only such Seeds as will under proper conditions and care produce good results, WE GIVE NO WARRANTY, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, PRODUCTIVENESS, OR ANY OTHER MATTER OF ANY SEEDS, BULBS, OR PLANTS WE SEND OUT AND WE WILL NOT BE IN ANY WAY RESPONSIBLE FOR THE CROP.

If the purchaser does not accept the goods on these terms, they

are at once to be returned. It must however be plain to every one who gives the matter the slightest thought that it is to our best interest to send out only such stock as will not only grow, but prove true to name and description. All Seeds that we especially recommend are designated M.-S. (Meyer-Special).

We assure you that your orders and good will are highly appreciated, and it shall be our constant purpose to merit your continued confidence, by living up to our motto: "Sterling Quality—Courtous Treatment—and Punctuality."

To new customers we extend a cordial welcome with the assurance that it will be our endeavor to handle your orders to your entire satisfaction, and an opportunity to serve you will be appreciated.

With every good wish for your Happiness and Prosperity throughout the New Year, we are,

Very truly yours,

THE MEYER SEED COMPANY

John A. Meyer

President.

(Baltimore, Md., Jan. 1, 1932.)

PARCEL POST RATES

We deliver by PARCEL POST FREE to any Postoffice in the United States all cash orders for Flower and Vegetable Seeds in packets, ounces and ¼ pounds, unless otherwise noted. No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Vegetable and Field Seeds in larger quantities and All Merchandise, consult following table. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 ozs. at the Zone Rate.

NOTE.—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

You may now send parcels 100 inches, length and girth combined, and up to 70 pounds to all zones.

When larger quantities are wanted we can pack in two or more parcels if necessary, provided money is remitted to cover postage.

	Each	1st lb.	Add'l lb.
1 and 2 zone—150 miles.....	7c	1c	
3 zone—150 to 300 miles.....	8c	2c	
For each additional zone add 1c. For each additional lb. add 2c.			

POISONS AND LIQUIDS CANNOT BE SENT PARCEL POST

How To Send Money—Remittances may be sent either in the form of a Money Order, Bank Check or Draft, or if currency is sent it should be registered. Postage stamps are satisfactory for small amounts.

Orders From Unknown Correspondents—We often receive orders from unknown correspondents without remittances, who request that we forward the goods and payment will be sent later. Please do not ask us to do this unless established credit has been previously arranged with us, as satisfactory business references must always be given by customers wishing to open accounts for credit.

IMPORTANT—Merchandise to be credited must be returned within five days in good order free of expense to us.



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Plant in succession.
Keep your garden space busy all the time, and you will be eating fresh vegetables all summer at a profit.

Planting Calendar

Make Your Garden Work
Spring, Summer, and Fall.

FLOWERS

MARCH	
Sow Outdoors	
Sweet Peas.	
Plant Indoors	Set Out
Ageratum	May 1
Antirrhinum (Snap-dragon)	May 15
Asters	May 10
Carnation, Marguerite	May 1
Celosia, Cockscomb	May 1
Cobea scandens	May 1
Heliotrope	May 10
Hollyhock	May 10
Lobelia	May 1
Pansy	May 1
Petunia	May 1
Salvia	May 1
Stocks (Gilliflower)	May 15
Verbena	May 1
Wallflower	May 1

APRIL	
Sow outdoors Nasturtiums	
All those listed for March may also be planted in April, and, in addition, the following:	
Sow Indoors	Set Out
Alyssum	May 1
Calendula	May 1
Coleus	May 15
Cosmos, Late	May 1
Dahlias	May 1
Delphinium	May 15
Gourds, Ornamental	May 1
Helianthus Sunflower	May 1
Marigold	May 1
Mignonette	May 1
Nicotiana	May 1
Phlox Drummondii	May 1
Poppy, Iceland	May 15
Ricinus (Castor-Oil Plant)	May 10
Salpiglossis	May 10
Scabiosa	May 1
Vinca	May 10
Zinnia	May 1

MAY
This is the month of outdoor sowing and planting. The following list of flowers comprises those which may be sown in the open, and which will mature into perfection before frosty weather sets in.

Sow Outdoors	(Do not require transplanting)
Sweet Alyssum	
Calendula	
Calliopsis	
Candytuft	
Centaurea (Bachelor's Button)	
Chrysanthemum, Annual	
Clarkia elegans	
Cosmos, Early	

MAY—Continued	
Delphinium	
Dianthus (China Pinks)	
Eschscholtzia (California Poppy)	
Gaillardia (Blanket Flower)	
Godetia	
Ornamental Gourds	
Helianthus cucumerifolius (Miniature Sunflower)	
Hunnemannia tulip poppy	
Larkspur, Annual	
Lupinus, Annual	
Marigold	
Mignonette	
Morning Glory	
Nasturtiums	
Petunia	
Phlox Drummondii	
Poppy	
Portulaca	
Salpiglossis	
Scabiosa	
Verbena	
Zinnia	

and all other annuals (Should be transplanted)

Asters	
Balsam	
Celosia (Cockscomb)	
Cosmos, Late	
Dahlias	
Marigold	
Mignonette	
Nicotiana	
Ricinus	

JUNE
This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.

To Remain Where Sown	
Alyssum saxatile compactum	
Aconitum (Monks Hood)	
Aquilegia (Columbine)	
Asters, Hardy	
Coreopsis	
Campanula (Bluebells)	
Candytuft, Sempervirens	
Hibiscus	
Lupins	
Poppies, Iceland	
Poppies, Oriental	
Sweet William	
Valerian (Garden Heliotrope)	

To Be Transplanted	
Canterbury Bells	
Delphinium	
Digitalis (Foxglove)	
Gaillardia grandiflora	
Hollyhocks	
Pyrethrum	

FLOWERS—Continued

JULY	Variety
This is the most important month for sowing some flower seeds. The following biennials, if sown in July and transplanted in August or September, will flower the following spring.	Bellis Perennis (English Daisies)
	Pansies
	Myosotis (Forget-me-not)
	And All Perennials

Bulbs, Tuberous Roots and Potted Plants

MAY	SEPTEMBER, OCTOBER AND NOVEMBER
Plant Outdoors	
Begonias	Dahlias
Caladiums	Gladioli
Montbretias	Tuberoses
Cannas	All potted plants
	Hyacinths
	Lilies
	Tulips
	Narcissus
	Jonquils
	Crocus
	Paeonies
	In fact, all Spring Flowering Bulbs.

VEGETABLES

MARCH
The only vegetables to be planted out-of-doors in March. All early peas and onion sets. There are a number of vegetables, however, which may be started indoors or in hotbeds.

Plant Indoors	Set Out
Artichoke, Globe	June 1
Cabbage, Early	April 1
Cauliflower, Early	May 1
Celery	June 1
Eggplant	May 15
Kohlrabi	April 15
Lettuce	April 15
Parsley	May 1
Pepper	May 15
Tomato	May 1

Outdoors
Peas, Early Smooth
Onion Sets

APRIL	
All the seeds mentioned in the March table can be started in April, and also the following:	
Plant Indoors	Set Out
Beets	May
Brussels Sprouts	June
Cabbage, Late	June
Cauliflower, Late	June

Plant Outdoors	
Asparagus, Roots	Parsley
Beets	Parsnip
Carrots	Peas, Early
Cress	Wrinkled
Kohlrabi	Potatoes
Lettuce	Radish
Mustard	Rhubarb, Root
Onion Seed	Swiss Chard
Onion Sets	Squash
	Turnip

Set out Lettuce started indoors in March.

MAY	
Plant Outdoors	
Asparagus Seed	Watermelon
Beans, Bush	Okra
Beans, Pole	Peas, Late
Corn, Sugar	Pumpkin
Cucumber	Squash
Muskmelon	
All the seeds mentioned in the April table may also be sown in May.	
Set out early cabbage, early cauliflower and tomato plants started indoors in March and April.	

JUNE	
Plant Outdoors	
Beans, Late Bush	
Beans, Late Pole	
Set out Globe artichokes, Brussels sprouts, late cabbage, cauliflower, celery, eggplants and peppers which have started indoors.	
Plant Swiss chard, sugar corn, lettuce, late peas, radishes, beets and turnips for late crops.	

JULY AND AUGUST	
Plant Outdoors	
Stringless Green Pod Beans	
Stringless Wax Pod Beans	
Ruta Baga	
Winter Radishes	
Kale, Turnip	
Spinach	

SEPTEMBER AND OCTOBER	
Plant Outdoors	
Corn Salad, Spinach	
Kale, Multiplying Onion	
Plant Under Glass	
Lettuce, Parsley	
Early Radishes	

Grow Vegetables for Winter Use

VEGETABLES YOUR BEST FOOD

Our health depends a great deal on what we eat. The average American meal consists of acid-forming foods and so refined that the best elements are lost and therefore detrimental. Vegetables are your best food; eat more of them.

After you have harvested your early crop of vegetables why not plant a second crop for winter use?

It is in winter that vegetables cost most. Your garden can be made to save you a great deal of money if you plant succession crops during the summer and early fall.

Sow Beets and Carrots any time during June. Turnips are sweetest if planted the latter part of June or early in July. Summer Radishes can be sown all during June and July.

Sweet Corn sown the middle of June will give fine tender ears early in October. A row of Bush Beans planted during the first week of July will bear an immense crop of juicy and snappy pods until frost.

Cucumbers planted the last two weeks in June will make the finest pickles you ever raised.

Also try a row of Chinese Cabbage. It does best if planted early in August. For a good supply of crisp and juicy Head Lettuce for the fall table, sow the seed about the second week in July. And don't forget to sow a long row of Spinach any time during August, to give plenty of greens until snow covers the ground.

What to Spray and What to Spray for	Spray With	Time of First Spraying	Time of Second Spraying	Time of Third Spraying
APPLES—				
Bitter Rot.....	Bordeaux mixture, Pyrox.....	First appearance of rot.....	One to two weeks later.....	Two weeks later.
Canker Worm.....	Arsenate of lead, Pyrox.....	On first appearance of worms..	Two or three days later if worms remain.....	Same as second.
San Jose Scale.....	Scalecide Sunoco or lime-sulphur.....	Just as the leaf buds are swelling.....	Just before the flower buds open	As soon as the petals have fallen.
Scab.....	Scalecide, lime-sulphur or Sunoco.....	After the leaves have come out, but before the flower buds appear.....	Within eight days from the time petals drop.....	One month later.
Codling Moth.....	Arsenate of lead, Pyrox.....	Within eight days from the time the petals drop.....	One month later.	
ASPARAGUS—				
Beetle.....	Arsenate of lead, Pyrox.....	Early spring.		
Rust.....	Bordeaux mixture or Pyrox.....	After cutting crop.....	Ten days later.....	Ten days later.
CABBAGE AND CAULI- FLOWER.....	Slug Shot, Pyrox.....	On first appearance of worms..	Whenever worms are noticed.	
CELERY.....	Bordeaux mixture, Pyrox.....	On young seedlings.....	Repeat on seedlings.....	Before or after transplanting.
CHERRY—				
Aphis.....	Black Leaf 40, Red Arrow.....	At first appearance.....	Repeat as necessary.	
San Jose Scale.....	Scalecide or lime-sulphur.....	Spray same as for apples.		
Leaf-spot.....	Scalecide or lime-sulphur.....	Just before blossoms open....	When fruit is free from calyx.	
CUCUMBERS—				
Anthraxnose.....	Bordeaux mixture, Pyrox.....	When plants begin to run....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture, Pyrox.....	When plants begin to run....	Ten days later.....	Nine days later.
CURRANT—				
Leaf-spot.....	Bordeaux mixture, Pyrox.....	As leaves are unfolding.....	Two weeks later.....	Two weeks later.
Worm.....	White hellebore, Pyrox.....	When they first appear.....	In three or four days.....	Repeat three or four days later.
GOOSEBERRY—				
Leaf-spot.....	Bordeaux mixture, Pyrox.....	Before leaves start.....	Two weeks later.....	Two weeks later.
Worm.....	Same as for currants.			
Mildew.....	Grape dust, Pomo dust.....	When buds are breaking.....	Repeat every ten days until fruit is gathered.	
GRAPE—				
Anthraxnose.....	Bordeaux mixture, Pyrox.....	Just before the buds open....	Just before blossoming.....	After fruit has set.
Berry Moth.....	Arsenate of lead, Pyrox.....	Before blossoms are ready to open.....	After blossoms have fallen.....	Ten days later.
Downy or Powdery Mildew.	Bordeaux mixture, Pyrox.....	Just before blossoming.....	After fruit has set.....	Ten days later.
Rot.....	Bordeaux mixture, Pyrox.....	Just before blossoming.....	Just after fruit has set.....	Eight days later.
MUSKMELON—				
Anthraxnose.....	Bordeaux mixture, Pyrox.....	When plants begin to vine....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture, Pyrox.....	July 25 to August 1.....	Ten days later.....	Nine days later.
Leaf-blight.....	Bordeaux mixture, Pyrox.....	When plants begin to vine....	Three weeks later.....	Three weeks later.
PEACH—				
Leaf-Curl.....	Scalecide, lime-sulphur or bordeaux mixture.....	In March or April, or both, to make doubly sure.....	Two or three weeks later.	
Brown Rot.....	Self-boiled lime-sulphur and arsenate of lead.....	About time shucks are shedding from young fruit or on first appearance.....		About one month before fruit ripens. Omit arsenate of lead.
Scab.....	Sulfocide, self-boiled lime-sulphur.....	Just as buds begin to swell....	After fruit has set.....	Repeat later when fruit is about half grown.
San Jose Scale.....	Scalecide, lime-sulphur or Sunoco.....	Spray same as for apples.		
PEAR—				
Leaf-blight.....	Bordeaux mixture.....	Cut out the branches on first appearance on twigs.		
Psylla.....	Black Leaf 40, Red Arrow or whale-oil soap.....	In winter use commercial lime-sulphur for eggs.....	After blossoms fall.....	Repeat at intervals of three to seven days.
PLUM—				
Curculio.....	Arsenate of lead.....	With starting of buds.....	Just after blossoms drop.....	Five days later.
Aphis.....	Whale-oil soap, Black Leaf 40.	On appearance of Aphis.....		
Shot-hole Fungus.....	Scalecide, lime-sulphur or bordeaux mixture.....	When leaves are half grown....	Three weeks later.....	Three weeks later if necessary.
Rot.....	Bordeaux mixture, Pyrox.....	As buds are swelling or on appearance.....	Just after calyx drops.....	Three or four weeks later.
POTATO—				
Early Blight.....	Bordeaux mixture, Pyrox.....	When plants are 6 inches high.	Seven to ten days later.....	Two weeks later.
Late Blight.....	Bordeaux mixture, Pyrox.....	As for early blight to July....	July 15 to 20.....	Two weeks later.
Potato Beetle.....	Paris green, slug shot, Pyrox. Calcium arsenate.....	When pest appears.....	Repeat if necessary.	
ROSE—				
Leaf-spot.....	Pomo dust.....	On first appearance of fungus..	Two or three weeks later.....	Repeat if necessary.
Mildew.....	Powdered sulphur, Pomo dust, Pomo Green with Nicotene.			
Slug, Aphis, etc.....	Red Arrow, Evergreen, Black Leaf 40, Nicofume Liquid, Pomo Green with Nicotene.	On appearance of slugs, etc....	Repeat if necessary.	
SQUASH—				
Aphis.....	Red Arrow or Black Leaf 40..	Spray under side of leaves.		
Lady Beetle.....	Arsenate of lead, Pyrox.....	As soon as pest appears.		
TOMATO—				
Anthraxnose.....	Bordeaux mixture, Pyrox.....	Soon after fruit begins to set.	Three weeks later.....	Three weeks later.
Leaf-blight.....	Whale-oil, soap and water.....	Three weeks after transplanting.....	Three weeks later.....	Three weeks later.
White Fly.....	Bordeaux mixture, Pyrox.....	Spray underside of leaves Thoroughly.		

Legal Weights of Seed and Grain Also Quantity Per Acre to Sow

Lbs. per bu.	Lbs. per acre	Lbs. per bu.	Lbs. per acre	Lbs. per bu.	Lbs. per acre	Lbs. per bu.	Lbs. per acre
48 Barley.....75—100		60 Clover, Alfalfa, broadcast.....18—22		60 Clover, Red or Sapling (on small grain in spring).....7—12		60 Peas, Cow peas (broadcast).....75—90	
60 Beans, Soy, drills..30—40		60 Clover, Alsike, (alone for forage) 8—15		60 Clover, Sweet (hulled).....10—15		50 Rape (drills).....4—8	
60 Beans, Soy, Broadcast.....60—80		60 Clover, Alsike, (on wheat or rye in spring).....4—6		60 Clover, White.....10—20		50 Rape (broadcast).....8—10	
14 Blue grass, Kentucky.....21—28		60 Clover, Crimson.....12—15		50 Millet, All Varieties.....40—50		32 Red Top, Fancy.....15—20	
48 Buckwheat.....50—75		25 Clover, Japan (Lespedeza).....15—25		14 Orchard Grass.....20—30		56 Rye.....56—112	
50 Cane, drills.....10—15		60 Clover, Red or Sapling (Mammoth) (alone for forage).....10—15		60 Peas, Cow peas (drills).....45—60		25 Sudan Grass.....15—25	
50 Cane, broadcast.....50—75						45 Timothy.....15—20	
60 Clover, Alfalfa, drills.....15—20						60 Vetch, Hairy (drills).....35—50	
						60 Vetch, Hairy (broadcast).....50—75	
						60 Wheat.....90—120	



Vegetable Plants and Roots

Cash with Order—No Plants Sent C. O. D.

We cannot send plants to restricted Japanese Beetles zones.

All of our plants are produced from our M.-S. SURE GROWING SEEDS, and will give wonderful results. If wanted in larger quantities, write for special quotations. The time when plants are ready is greatly controlled by the season, the specified time is the earliest date.

ARTICHOKEs (Ready in April)

Jerusalem—Used for the table and stock feeding. Qt. 35c; peck \$1.50; per bushel of 60 lbs. \$5.00.

ASPARAGUS ROOTS (Ready Oct. 15 to May 15)

Two-year-old roots usually produce second year after planting.	Doz.	100	1000
2-Year-Old Roots.			
Columbian Mammoth White (White)	\$0.30	\$1.25	\$ 9.00
Palmetto (Green Stalks)	0.30	1.25	9.00
Mary Washington (Dark Green Stalks)	0.50	1.75	12.00

If wanted by mail add 10c to doz.; 15c to 100; 35c to 1000.

BORECOLE PLANTS (Ready July 1)

20c doz.; 75c per 100; by mail, add 5c to doz.; 15c to 100.

BRUSSELS SPROUTS (Ready in July)

Matchless Improved—12 for 25c; 75c per 100; per 1000, \$6.00. If wanted by mail, add 10c per 100 for postage; 5c per doz.

FROST-PROOF CABBAGE (January to May)

Our FROST-PROOF CABBAGE PLANTS mean increased profits for the Market Gardener, and earlier cabbage for the Home Gardens, as they produce heads at least two or three weeks earlier than plants grown in hot beds or cold frames. They are tough and hardy and will stand any reasonable cold, even as low as 20 degrees above zero without damage to them.

These plants do not begin any new growth of their tops until the spring weather arrives, however, the roots of the plants have become so firmly established that the warm spring sunshine soon hastens the growth of them.

We advise all cabbage growers to set these plants at least a month to six weeks earlier than you would set home-grown plants to get the desired results.

Send in your order about a week or ten days before plants are wanted, as it takes a few days to get plants to you.

Copenhagen Market—Not ready until the first of March.

Varieties—Early Jersey Wakefield, Charleston Large Wakefield, Copenhagen Market, Early Flat Dutch and Succession.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express, customer paying express charges: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000; cash with order.

CABBAGE PLANTS (Season beginning April 1)

Early Flat Dutch and Jersey Wakefield—From hot beds. 15c per doz.; 50c per 100; per 1000, \$3.00.

Late Flat Dutch and Savoy—15c doz.; per 100, 50c; \$3.00 per 1000. If cabbage plants are wanted by mail, add 10c per 100; 5c dozen; 25c 1000. Ready May 15th.

CAULIFLOWER PLANTS (Ready in April)

Snowball, variety only—From hot beds. 25c per doz.; \$1.50 per 100. By mail, add 5c per doz., or 10c per 100 for postage charges.

CELERY PLANTS (Ready in July)

Golden Heart, White Plume, Giant Pascal, Winter Queen and Golden Self-Blanching. 25c dozen; \$1.00 per 100; \$7.50 per 1000. By mail, allow 10c per 100 for postage; 5c per dozen.

EGG PLANTS POTTED (Ready after May 1)

M.-S. Ebony King and Black Beauty—7c each; 75c doz.; \$5.50 per 100. Best sent by express. Mail, add 2c to each plant.

HORSE RADISH ROOTS (Ready in March)

Maliner Kren (Bohemian)—Large, strong cuttings, 35c per doz.; per 100, \$1.00; \$7.00 per 1,000. If Horse Radish are wanted by mail, add 10c per 100 for postage; 5c per doz.

LETTUCE PLANTS (Ready April 1)

Belvedere, Big Boston, Iceberg—10c doz.; 50c per 100; \$4.00 per 1,000. If wanted by mail, add 10c per 100 for postage; 5c doz.

ONION PLANTS (January to May)

CRYSTAL WAX AND YELLOW BERMUDA

Onion Plants are fast taking the place of the old dry sets. Our Onion Plants are grown from the best and purest seed obtainable, bred up to the highest degree which assures you that they will not revert back to the hot red onion. The Bermuda Onion is very sweet and mild and can be eaten like an apple. Onion Plants produce the matured onion two weeks or more ahead of the dry set on account of the fact that the dry set has to be absorbed by the new growth before it begins to grow the new onion, whereas the plant begins to grow as soon as it is planted and makes more headway than the set and gives you young green table onions in a very few weeks. Onion plants do not produce splits and doubles or run to seed like the dry sets. They will stand the most severe cold weather, even more than Cabbage plants, and when the tops are frozen to the ground they will come out again and produce the finest onions. For small gardens these plants may be planted in rows 6 inches apart and 4 inches apart in the drill and on a spot 12 feet square it will take almost 1,000 plants.

All Onion plants are tied 100 to the bunch and all orders should be sent in for even hundreds.

Remember that our plants are GUARANTEED to reach you in good condition and full count and if you are not entirely satisfied your order will be refilled without question FREE OF CHARGE.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.



Plants grown on Paper Mulch mature quicker and are of finer quality. See page 46.

By express charges collect: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000.

PEPPER PLANTS (Ready in May)

California Wonder (Sweet), Long Red Cayenne (Hot).—Hot Bed Grown. 25c per doz.; per 100, \$1.50. By mail, add 10c per 100; 5c doz.; Potted Plants, California Wonder only, 6c each; 60c doz.; \$4.50 100; if to go by parcel post, add 1c to each plant.

RHUBARB ROOTS

(Ready October to May 15)

Victoria—First Size Roots. 10c each; \$1.00 per doz.; per 100 \$7.50. Allow 5c each or 20c dozen for postage, if wanted by mail.

SWEET POTATO PLANTS (Ready May 15th)

Yellow Big Stem and Up Rivers—50c per 100; 1,000, \$3.00. If wanted by mail, allow 8c per 100 for postage, 25c per 1,000.

TOMATO PLANTS (Ready after April 15)

Pot-Grown Plants in the following varieties only: Early Wonder, Bonnie Best, Chalk's Jewel, 7c each; doz. 75c; \$5.50 per 100. By mail, add 1c per plant.

Hot-Bed Plants: Bonnie Best, Marglobe, Stone. 20c per doz.; per 100, 60c; \$4.00 per 1,000. By mail, allow 5c per doz.; 15c per 100; 40c per 1,000.

We Pay Postage on All Seeds on This Page

Asparagus—Seeds and Roots

(German—Spargel. French—Asperge)
(ROOTS READY AFTER MARCH 1st)One ounce to forty feet of drill; 5 lbs. per acre.
7,300 Asparagus Plants are needed to plant an acre.

VEGETABLES YOUR BEST FOOD

Our health depends a great deal on what we eat. The average American meal consists of acid forming food and so refined that the best elements are lost and therefore detrimental. Vegetables are your best food; eat more of them.



Mary Washington Asparagus.

CULTURE—Sow in March or April, in rows one foot apart. When two years old transplant into permanent beds, which should be well and deeply manured, and trenched to the depth of two feet. In planting for private use, set out in beds five ft. wide, three rows in a bed, the outer being each one foot from the edge and allow eighteen inches between the rows; set plants from four to six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market on a large scale, set out four by one and one-half feet. On the approach of winter, cover with manure or compost; fork the beds early in spring and apply a dressing

of salt. Cut for use the second year after planting in permanent bed. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime and paris green.

Columbian Mammoth White—Pkg. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Mary Washington—This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust-free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is an early heavy yielder of exceptionally fine flavor. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

Palmetto—It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots. Pkg. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

For Roots see page 5.

Artichokes

Large Green Globe—This is a very delicious vegetable. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same as asparagus. Pkt. 10c; oz. 50c; ¼ lb. \$1.40; 1 lb. \$5.00.

Artichoke Roots (Jerusalem)—See page 5.

Brussels Sprouts

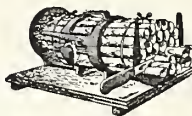
(German—Rosenkohl)
(French—Choux de Bruxelles)

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred buds resembling miniature Cabbage heads. The leaves composing these heads resemble Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, one to two inches in diameter, form one of the most delicious garden vegetables, only equalled by the Cauliflower. Treat same as Cabbage.

Improved Dwarf—Produces compact sprouts of finest quality; a good keeper. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

For Plants, see page 5.

Accessories for Asparagus Culture



Asparagus Buncher—Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$4.25. Parcel Post weight, 8 lbs.

Asparagus Knife—V-shaped blade, 40c. Parcel post wgt., 1 lb.

Asparagus Salt—Applied in the Spring, 600 to 800 lbs. per acre, for destroying weeds. 10-lb. 25c; 50-lbs. \$1.00; 100-lbs. \$1.50; 200-lbs. \$2.50.

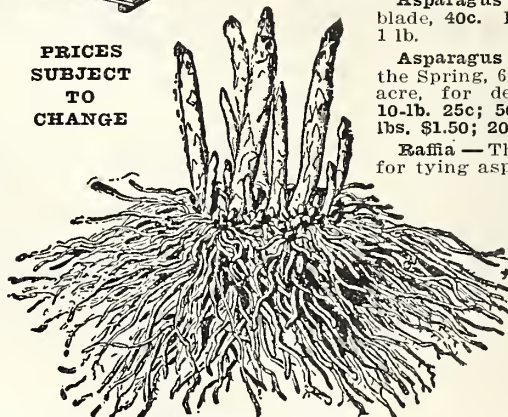
Raffia—The ideal material for tying asparagus. 30c per lb. in hanks. Hank runs about 2½ lbs. 25 lbs. or more at 25c per lb.

Jute Twine—Very soft and pliable. 15c per ball.

Postpaid 20c. Special price on quantities on application.

Red Tape for tying asparagus. 1,000 yds. \$2.25 Postpaid \$2.35.

PRICES
SUBJECT
TO
CHANGE



Two-Year-Old Asparagus Plants, see page 5.

Broccoli

(German—Spargelkohl)
(French—Buocoli)

A plant much resembling the Cauliflower. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves; heads are smaller. Treat same as Cabbage.

One ounce of seed to 200 feet of row.

Early Large White—Heads medium size, close and compact. One of the most certain to head. Pkt. 10c; oz. \$1.00.

Early Purple Cape—Rather harder sort, with greenish-purple heads, good flavor. Pkt. 10c; oz. \$1.00.

Italian Sprouting Broccoli

CULTURE—Sow about middle of August in rows 32 in. apart, well fertilized, using 2 lbs. of seed to the acre, covering the seed ½ in., cultivate twice before freezing weather. In cold weather tops will die down. As soon as it begins to get a little warm in February, put on a top dressing of Nitrate of Soda or some quick acting fertilizer. Cultivate after top dressing is put on. About the middle of March it will commence to stalk up with several shoots per stalk, with green blossoms. When stalks are about 8 inches high cutting may commence. Tie in bunches like asparagus, with one to one and a half lbs. in a bunch. Ship in crates, 2 doz. bunches per crate. Cutting will commence around the middle of March and continue until around the 10th of April. If weather is warm may cut 2 to 3 times each week. After cutting is over the same land may be used for any desired crop. Leaves may be cut and shipped to northern markets, commanding a fair price.

Served like Asparagus or Greens, it makes a delicious and wholesome dish. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

Italian Broccoli Calabrese

This variety is the broccoli which is served in the first class hotels of Metropolitan cities. It is cooked and served like cauliflower; it has a delicious flavor and is highly praised by epicures.

CULTURE—Sow seed in open ground 1st of April. Set plants out May 15th to June like late cabbage. Pkt. 10c; 1 oz. 60c; ¼ lb. \$1.75; 1 lb. \$6.00.



Italian Broccoli Calabrese.

Use Stimugerm Innoculation on all beans. See page 7.



Full Measure Beans.

Full Measure—A recent introduction. Heavy light green foliage. Very prolific. Pods $5\frac{1}{2}$ to 6 inches long, stringless, round, slightly curved; very good quality. Pkt. 10c; $\frac{1}{2}$ pint 15c; 1 pint 25c; 1 qt. 40c; $\frac{1}{2}$ pk. \$1.25; 1 pk. \$2.25; bushel \$8.50.

New Stringless Greenpod—Pods absolutely stringless, round, slightly curved, medium green, recommended for canners, also as a late sort for market garden and home. Prices same as above.

Dwarf Horticultural, or Cherry—This is a broad, long flat meaty bean, very productive, of delicious flavor; absolutely stringless. It also makes a good dried bean for winter. $\frac{1}{2}$ pt. 15c; 1 pt. 25c; 1 qt. 50c; $\frac{1}{2}$ pk. \$1.75; pk. \$3.00; bus. \$10.00.

Masterpiece—This is a large, flat-podded variety, especially adapted for growing under glass, though it may be grown successfully outdoors. Pkt. 10c; $\frac{1}{2}$ pt. 30c; pt. 50c; 1 qt. \$1.00.

Shell Beans for Winter Use

White Navy, or Boston Pea Beans—Yields large quantities of white shell beans, which are used for baking. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pt. 25c; qt. 40c; $\frac{1}{2}$ pk. \$1.00; pk. \$1.50; bu. \$5.00.

White Marrowfat—Planted almost exclusively for winter use, making large white, kidney shaped beans. Pkt. 10c; $\frac{1}{2}$ pt. 20c; pt. 30c; qt. 50c; $\frac{1}{2}$ peck \$1.75, peck \$3.00.

Bush Beans—Wax or Yellow Podded

M.-S. SURE CROP STRINGLESS WAX—This is a grand bean. Absolutely stringless and a great rust resister. Will produce an abundance of long yellow flat pods. Pkt. 10c; $\frac{1}{2}$ pt. 15c; 1 pt. 25c; quart 40c; $\frac{1}{2}$ peck \$1.25; peck \$2.25; bushel \$8.00.

Currie's Rust-Proof Black Wax—Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color and not apt to rust. Prices same as above.

Davis Kidney Wax—Beans handsome flat yellow pods. White seed. Prices same as above.

Improved Golden Wax—Small plants of erect growth, bearing flat thick pods about 5 inches in length, and of excellent quality. An early and reliable variety, recommended for home use. Prices same as above.

Round Pod Kidney Wax—As its name implies, this is a round podded bean, which is very brittle and juicy. Price same as above.

PRICES SUBJECT TO CHANGE

Bush Beans—Green Podded

If beans are to be sent by parcel post, add 5c to $\frac{1}{2}$ pt.; 8c to pt.; 9c to qt.; 15c to $\frac{1}{2}$ pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.

CULTURE—The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre. We furnish 10c packages of all Beans.

Burpee's Stringless Green Pod—An ideal variety having round slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Pkt. 10c; $\frac{1}{2}$ pint 15c; 1 pint 25c; 1 qt. 40c; $\frac{1}{2}$ pk. \$1.25; pk. \$2.25; bus. \$8.

M.-S. Giant Stringless Green Pod Beans—Of finest quality, large handsome pods, some of which measure fully 6 inches in length. Very productive, very fleshy and entirely stringless. Specially adapted to the home garden. Prices same as above.

Bountiful—Easily the earliest and most productive flat, green-podded, stringless bush bean in cultivation today. Under favorable conditions of soil and season this variety has been known to bear one bushel of pods per 15-foot row, in the course of the season. The pods average 6 inches long by $\frac{3}{4}$ inches wide, are thick through, of pleasing light green color, very brittle and absolutely stringless at all stages of development. Bountiful tastes as good as it looks. Prices same as above.

Early Red Valentine—One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Price same as above.

Black Valentine, or May Queen—Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Prices same as above.

Asgrow Valentine—This new introduction is typically Black Valentine, has all the sturdy characteristics which popularized Black Valentine as a producer and shipper—has long, practically straight, oval pods of good color and texture and is completely stringless. Pkt. 10c; $\frac{1}{2}$ pint 20c; pint 35c; qt. 60; $\frac{1}{2}$ pk. \$2.00; 1 pk. \$3.50; bus. \$12.00.

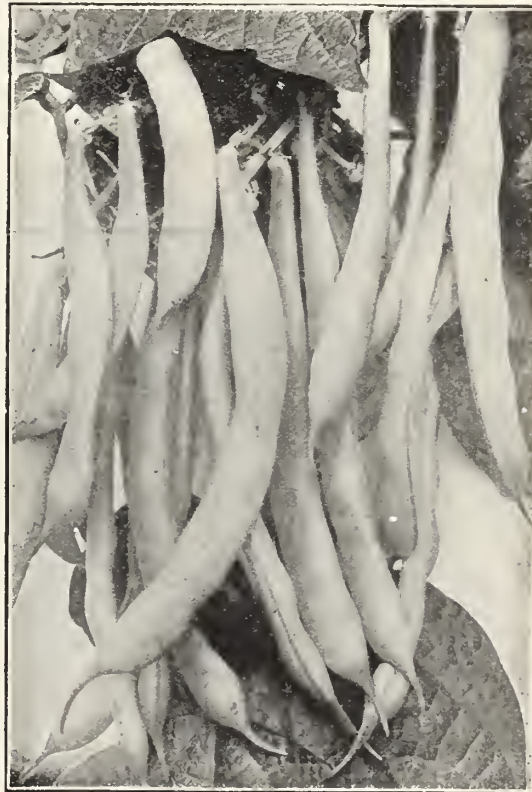
Gentlemen:

The seeds advertised in your catalogue are certainly true to name. Our vegetable garden was very satisfactory and we were surprised at the wonderful results obtained.

Mr. C. Stevens, Gardener
care Mrs. R. J. White,
Roland Park, City.



See page 46



M.-S. Sure Crop Stringless Wax

If beans are to be sent by parcel post add 5c to $\frac{1}{2}$ pt.; 8c to pt.; 9c to qt.; 15c to $\frac{1}{2}$ pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.

Mr. Jos. Shiebeck, a farmer of Middle River, Md., says: "I have used seeds from many other houses but always find yours to be the best."

Pole Lima Beans

FOR POSTAGE ON BEANS
SEE PAGE 7.

CULTURE—These require pole 8 to 10 feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant 4 to 6 beans, about 1 inch deep, around each pole. Thin out to three plants to a pole, if the soil is rich; pinch off the ends of plants when they overrun the top of the poles to effect a more perfect growth below. Lima Beans for early use may be grown in pots in frames and transplanted. One quart to 100 poles.

Early Leviathan—The earliest large pole lima; very productive. Pkt. 10c; ½ pt. 20c; pint 30c; quart 50c; ½ peck \$1.50; peck \$3.00; bushel \$10.75.

King of the Garden—Vigorous grower, bearing large pods, 5 to 8 inches long. Beans large and of rich flavor. Price same as above.

Sieva or Small White Lima—(Butter Bean). Early and productive, a great drought resister, smaller than regular limas, but juicy and of fine flavor. Price same as above.

M.-S. Giant-Podded—Is the largest of all Pole Limas. The pods measure from 7 to 8½ inches in length with a width of 1½ to nearly 2 inches. The beans are extra large. They are invariably of superb flavor. The vines easily attain a height of from 10 to 12 feet. The pods are produced in clusters of from 4 to 8 until killed by frost. Pkt. 10c; ½ pt. 20c; pint 35c; quart 60c; ½ peck \$2.00; peck \$3.75; bushel \$13.50.

Dreer's Improved Challenger, or Potato Lima—Beans round and thick, of delicious flavor, easy to shell, immense cropper. Price same as above.

Bush Lima Beans

CULTURE—1 quart to 100 feet of drill. Seed 2 inches apart or, plant in rows two feet apart, and make hills one foot apart in the rows.

M.-S. Enormous Bush Lima Beans—As the name implies, these are truly enormous, bearing in abundance, large pods which are filled with delicious large beans. Pkt. 10c; ½ pt. 20c; pt. 35c; qt. 60c; ½ peck \$2.00; peck \$3.75; bushel \$13.50.

Fordhook Bush Lima—Beans large, round, thick, green and of delicious flavor, bearing in clusters of from 4 to 8 averaging 4 large beans to the pod. Price same as above.

Burpee's Improved Bush Lima. Bears an abundance of thick kidney-shaped beans. Price same as above.

Burpee's Bush Lima—Pods abundantly and well filled with handsome flat beans. Pkt. 10c; ½ pt. 20c; pint 30c; quart 50c; ½ peck \$1.75; peck \$3.25; bushel \$12.00.

Henderson's Dwarf Lima—The popular baby lima; their flavor is excellent. Pkt. 10c; ½ pt. 15c; pint 25c; quart 40c; ½ peck \$1.50; peck \$2.75; bushel \$9.50.

English, or Broad Windsor Beans

CULTURE—Same as Bush Limas, only plant thinner. A bean similar to Lima Beans, but a different flavor and larger. Should be planted early, March or April, as they are very hardy. Pkt. 10c; ½ pt. 20c; 1 pt. 35c; 1 qt. 50c; 1 peck \$3.00.

WE FURNISH 10c PACKAGES OF ALL BEANS.

Pole String Beans

(GREEN AND WAX POD)
CULTURE—Same as Pole Lima.

M.-S. Golden Cluster Wax—Deep yellow flat pods, often 8 inches long. Heavy yielder, bearing in large clusters. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ pk. \$1.50; 1 peck \$2.75.

M.-S. Kentucky Wonder Wax—Same as the above Kentucky Wonder with exception of beautiful yellow pods. Price same as above.

Kentucky Wonder, or Old Homestead—The most popular of the pole varieties, and it should be in every garden where beans are planted. It grows luxuriantly and bears for a long period. Pods are very long, very fleshy and deeply creased or saddle-backed, green in color and stringless. Seed light brown. Pkt. 10c; ½ pt. 15c; 1 pt. 25c; qt. 40c; ½ pk. \$1.40; peck \$2.50.

Lazy Wife, or White Cherry—Pods 6 to 8 inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. Price same as above.

Horticultural, or Pole Cherry—Pods green, dashed with red when beans are matured. Very showy. Price same as above.

Yard Long, or Snake Beans—This is an ornamental as well as useful pole bean. Produces an abundance of dark green foliage and stringless green pods, often measuring from two to three feet long, which when cooked make a delicious dish. Seeds very small. Pkt. 10c; oz. 25c.

TABLE BEETS

(German—Rote Rueben.

(French—Bette.)

WE PAY POSTAGE ON ALL BEET SEEDS.

One ounce of seed sows 60 ft. of drill; 5 lbs. will sow an acre in drills.

CULTURE—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early sow in hot-beds and transplant; but for main crop sow in the spring as soon as ground becomes fit to work, in drills 18 ins. apart and 2 inches deep. For winter use sow as late as July. When the plants have attained 3 or 4 inches in height thin out so that they stand 5 to 6 inches apart. Keep free from weeds. Before freezing weather sets in the roots may be stored in cellars or pits, same as potatoes. Dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

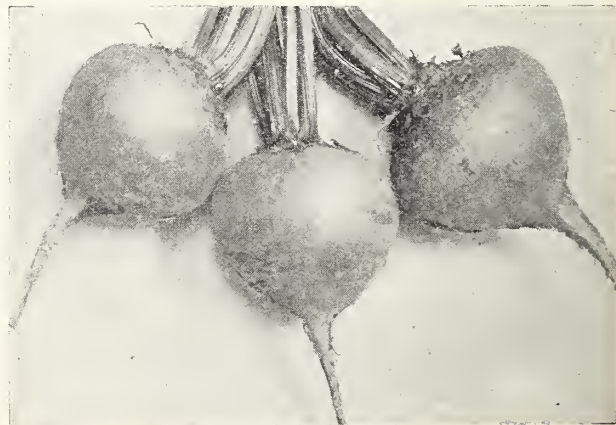
M.-S. Strain Detroit Dark Red Beet—Like the Detroit Dark Red, but runs more uniform in

shape and color, positively the best beet for truck farmers, as they always bring top-notch prices on the wholesale market, or at the packers. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

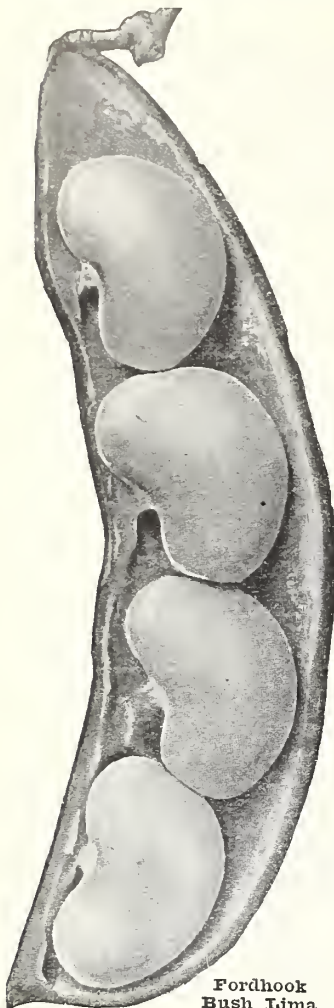
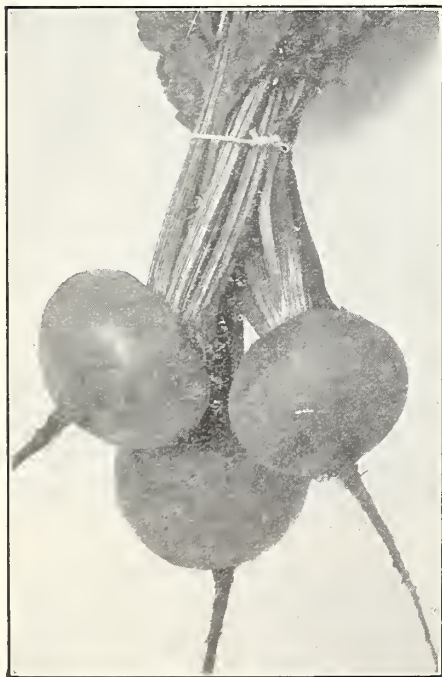
Gentlemen:

Allow me to congratulate you on the fine quality of your seeds. My Spring order will be sent to you just as soon as I can assemble it.

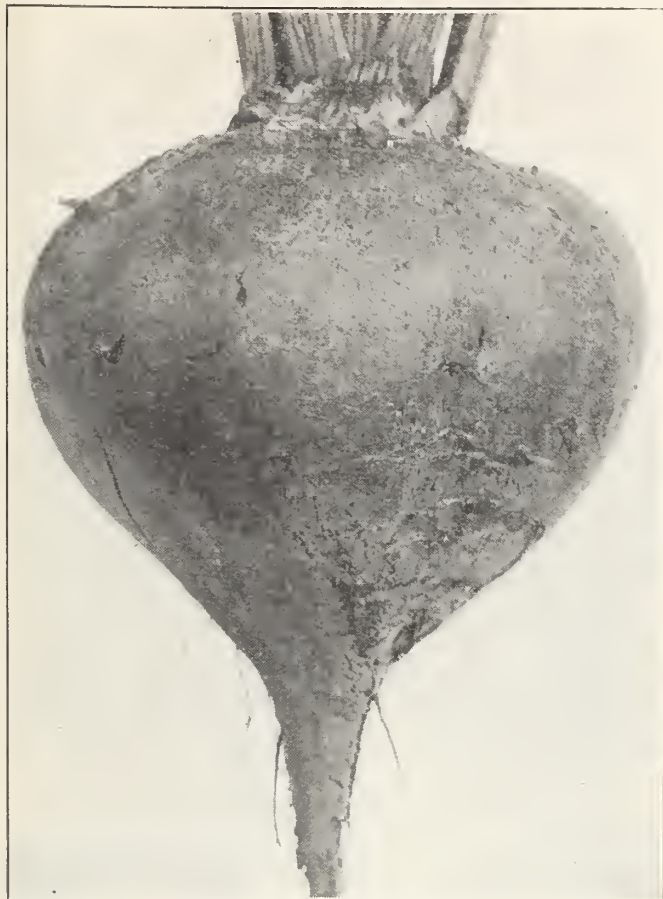
USAMI MASATOUNE,
68 Kamiteine, Teinemuren, Sapporogum,
Hokkaido, Japan.



Early Wonder Beet.

Fordhook
Bush Lima.

M.-S. Strain Dark Detroit Red Beet.



Crosby's Improved Egyptian.

WE PAY POSTAGE ON ALL BEET SEEDS.

"M.-S." Early Marvelous Beet

The Ideal Beet for the market or home garden; in shape it is nearly a perfect globe, about 10 inches around with smooth skin free from rootlets; the flesh is a rich blood red nicely ringed, never stringy, and always tender and sweet; excellent for canning. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Extra Early Flat Egyptian—Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 90c.

Crosby's Improved Egyptian—Very desirable. Thicker in body than the Egyptian, small necked and dark fleshed. Fine for early market. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Extra Early Eclipse—Maturing in an incredibly short time, round-shape beet. Small top, and of excellent table quality. Makes an attractive seller in market. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Early Wonder—A very early dark red beet similar to Crosby's Egyptian in shape. Its earliness and deep color make it a favorite with the market gardeners in many sections of the country. It is sweet and tender and a good variety for the home garden. The tap roots are small and the roots are of a desirable shape for bunching. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.

Detroit Dark Red Beet—A blood red, early, turnip-shaped variety. Has small upright top; fine round shape. Skin and flesh dark blood red. Very tender and sweet. Remarkably uniform in growth and a particularly desirable sort for truckers and market gardeners. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Long Smooth Dark Blood—This variety has long, slender roots. The beets are seldom more than two inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

Crimson Globe—A second early variety, does not grow large and coarse, the matured beets being medium in size and good shape. The flesh and skin are both very dark and quality fine, being sweet and tender. The tops are small and dark in color. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c.

SWISS CHARD—See page 23.

BEET PLANTS—See page 5.

Cow Beets

MANGEL-WURZEL

(German—Runkelrueben) (French—Betterave)

Used for feeding cattle. Sow five pounds per acre.

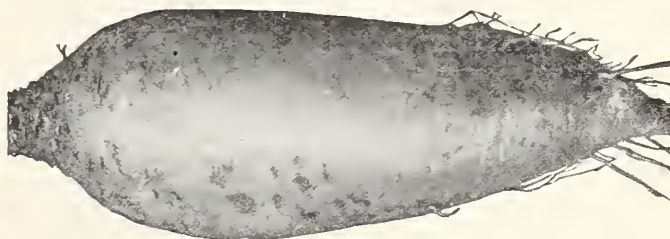
CULTURE—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 ins. and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel.

Golden Tankard—The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c; 5 lbs. \$2.75.

Jumbo Mangel—Immense, long, red, very fine quality. Price same as above.

Gate Post Mangel—Large, yellow, excellent sort. Price same as above.

Mammoth Long Red—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing 20 to 40 lbs. The best long red mangel and very valuable for stock feeding. Price same as above.



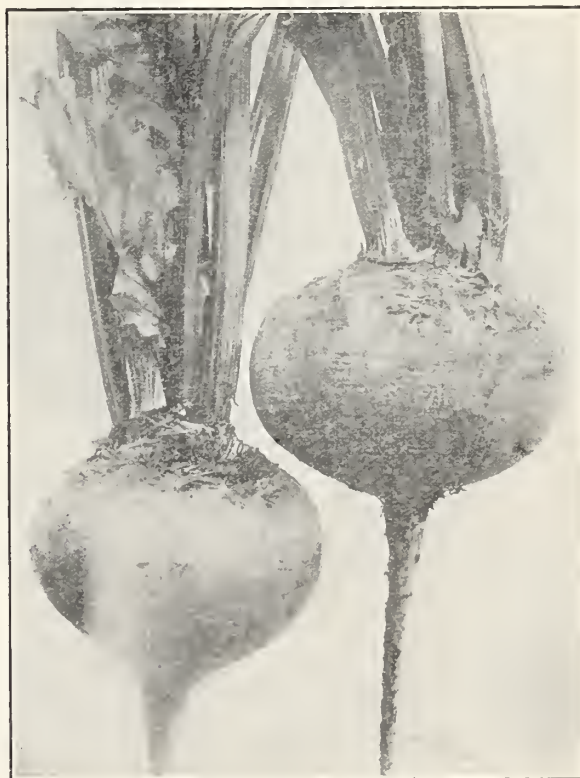
Gate Post Mangel Beet.

Gentlemen:

Your flower seeds for Greenhouse plantings are exceptionally good and true to name. We also wish to compliment you on your prompt service and the filling of our orders. We wish to assure you that we will continue to use your seeds in the future.

FRED REITZ & SONS, (Florists),

Woodlawn, Md.



M.-S. Early Marvelous Beet.

We Pay Postage on All Seeds on This Page

M.-S. CHOICE CABBAGE SEED

(GERMAN—KOPFKOHL. FRENCH—CHOU)

One ounce will produce about 2,500 plants; one-quarter pound for transplanting an acre.

Culture—Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

Early Varieties

Extra Early Jersey Wakefield—Our strain of this excellent extra early, pointed head sort is without a doubt the earliest cabbage of the day. Heads are smaller than Early Jersey Wakefield, but are solid and extremely uniform in both green color and size. **Pkt. 10c; oz. 30c; ¼ lb. 75c; lb. \$2.25.**

Early Jersey Wakefield—The finest oblong-shaped cabbage in existence. The head is solid, there being very few outside leaves. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

Large Charleston Wakefield—Similar to Early Jersey, but the heads are more blunt, equally as solid, while almost twice the size, but matures one week later. **Pkt. 10c; oz. 25c ¼ lb. 75c; lb. \$2.25.**

Early York—Resembles the Early Wakefield. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

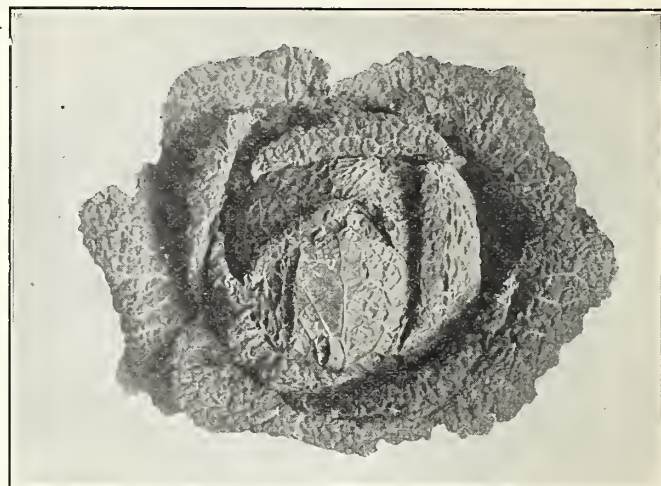
Early Winnigstadt—Resembles Charleston Wakefield. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

M.-S. Golden Acre—This is an extra early strain of Copenhagen Market maturing about ten days earlier. It will mature heads in eighty days from time of sowing, measuring nine inches in diameter, with a uniform weight of five pounds. Height of stalk is 2 ins. and entire plant consists of thirteen leaves which allows close planting. **Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$4.50.**

COPENHAGEN MARKET—A valuable new early cabbage from Denmark, producing a large globe-shaped solid head which comes into market along with Charleston Wakefield. Our seed comes direct from the originator, makes few loose leaves, it is a vigorous grower and an excellent keeper. **Pkt. 10c; oz. 30c; ¼ lb. 90c; 1 lb. \$3.25.**

New Early—The largest of the early cabbage. Head roundish flat, remarkably solid. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

Early Flat Dutch—A dwarf-growing type, principally used for early summer. **Pkt. 10c; oz. 30c; ¼ lb. 75c; lb. \$2.25.**



M.-S. Perfection Drumhead Savoy Cabbage.
German—Wirsing Kohl. French Choufrise.)

Danish Ballhead—An elegant medium late variety. Round and compact. **Pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00.**

Late Flat Dutch—Improved Strain. This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

Chinese Cabbage

P e - T s a i—Improved Chinese Cabbage. The marked appearance of this cabbage in quantity the past few years has created a widespread demand for the seed. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late cabbage, planting in July (turnip planting time), as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings thinned two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or as a salad, or cooked. Boiled, minced and seasoned with butter, it is especially delectable. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.**



Chinese Celery Cabbage.

Georgia Collards

Culture like Cabbage. The lower leaves are pulled off and used same as Cabbage Sprouts and Kale; will be found very delicious if you have never tried it; give it a place in your garden this coming season. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 75c.**

Corn Salad

(German—Acker Salat.
French—Mache)

Culture—Sow in Spring, in drills one foot apart; it will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September. Three ounces of seed to 100 feet of drill. Will do well if sown in Spring. Large Leaved—**Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.25.**

Cardoon

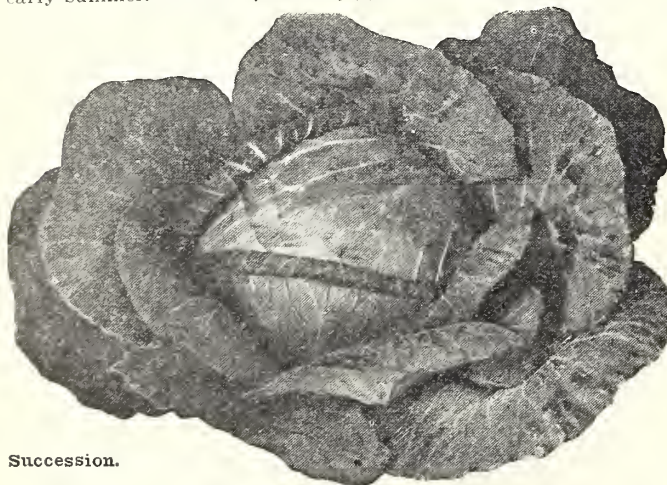
Grown for its stalks which make a delicious vegetable. **Pkt. 10c; oz. 50c.**

Gentlemen:

We have tried your Bloomaid in our greenhouses with amazing results. We wish to recommend same very highly.

JOHN COOK, INC.

315 N. Charles St., Baltimore, Md.



Succession.

Second Early Varieties

Succession—A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

Early Drumhead—A very popular sort with the market gardeners. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

Late, or Winter Varieties

American Drumhead Savoy—A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

Red Dutch Drumhead—A red variety, used extensively for its good qualities. **Pkt. 10c; oz. 35c; ¼ lb. \$1.00; 1 lb. \$3.50.**

All Seasons (Vandergaw)—A very large head, flat and solid. It is valuable for Summer or Winter use. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.25.**

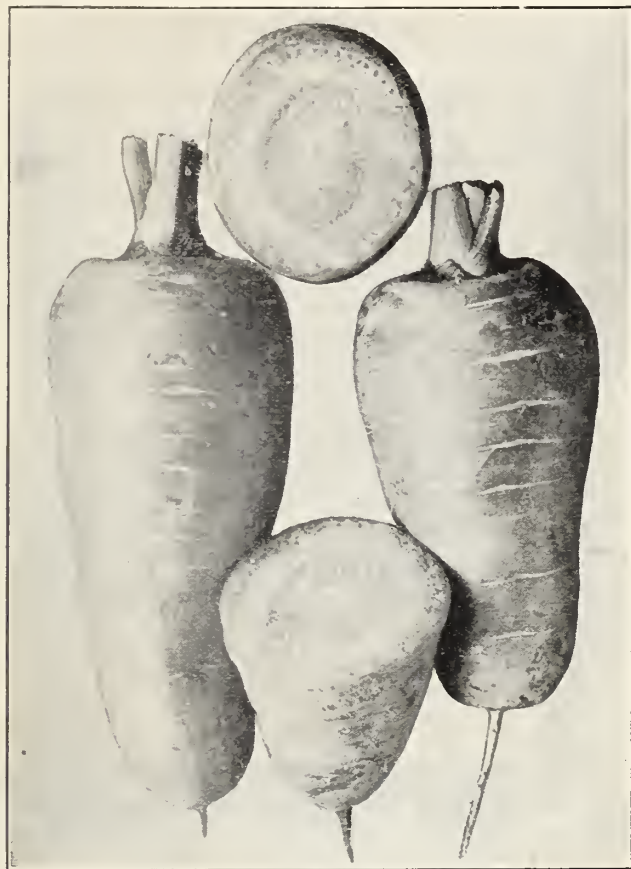
WE PAY POSTAGE ON ALL SEEDS ON THIS PAGE.

Carrot

(German—Moellröder Gelbe Bueber. French—Carotte)

One ounce to 100 feet of row. 2 or 3 lbs. to acre.

Culture—A light, loamy soil that has been well manured the previous year is preferred for growing carrots, although good crops may be obtained from ordinary garden soil. For early use seed may be sown in hotbeds from January until March, and in the open ground as soon as the weather becomes warm and settled, usually in April. Sow seed one-half inch deep in rows 15 inches apart, and later thin to five inches in the row. Keep soil between the rows well hoed and free from weeds. From July 1st to 15th sow for Winter crops.



Red Cored Chantenay.

RED CORED CHANTENAY—A little more stump rooted and heavy shouldered than its famous parent Chantenay. The color is a deep orange-red and the core is practically the same color. It is of delicate flavor. Tops not too long, making it a desirable bunching carrot. Pkt. 10c; oz. 20c; ¼ lb. 40c; 1 lb. \$1.25.

M.-S. SOUTHERN PRIDE—An ideal medium early stump-rooted Carrot; smooth and uniform in shape, averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color, almost coreless and of fine flavor. Positively the best carrot for home garden or market. Advisable for truckers. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

Pride of Market Carrot—Similar to the above. Same price.

Chantenay—Top medium sized, neck small, roots tapering slightly but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

M.-S. Strain Danvers Carrot—Like the above, but runs more uniform in shape and darker in color. Advisable for truckers. Price same as above.

Danvers or Half-Long Orange—Owing to its enormous yield this variety is the best and most profitable for main crop, also desirable for feeding cattle. It is somewhat longer than Chantenay. Price same as above.

Scarlet Horn or French Forcing—Extremely early, of small size, but very sweet, tender and beautiful orange-red color. Same price as above.

Oxheart or Guerande—A short thick carrot not exceeding four inches in length and about the same in width which does quite well on hard, heavy soils where the longer varieties are useless. Price same as above.

Celery

(German—Sellerie. French Celeri)

One ounce will produce about 2,000 plants.

Culture—Sow the last of March or early in April, in an open border, in rich, mellow ground, in shallow drills, watering freely in dry weather. By rolling or pressing in the seed the result will be more satisfactory than when covered. Cut the tops off once or twice before planting out, to make them stocky. When the plants are five or six inches high transplant the dwarf varieties 3 feet, and the taller sorts 4 feet between the rows; plant 6 inches apart in the rows. Cultivate well, and when large enough, blanch by earthing up.

Golden Detroit—A new celery originating from Golden Self Blanching. A handsome plant, very compact and full hearted. The edible stems 7 to 8 ins. long, blanches easily to a deep clean yellow and are free from strings, hearts are full and crisp, excellent flavor. Fine for shipping, market gardener or home grower. Pkts. 25c and 50c; ½ oz. \$1.25; 1 oz. \$2.00.

Golden Phenomenal—Plants are very heavy and compact and full hearted. The stems are exceptionally broad and thick, brittle and free from strings. It is of a very fine flavor and excellent quality throughout. Pkts. 25c and 50c; ½ oz. \$1.00; 1 oz. \$1.75.

Easy Blanching—For early use; preferred by many to all other sorts; as self-blanching as White Plume, and simply needs a slight earthing-up. Pkt. 10c and 25c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$3.75.

French Golden Self-Blanching—(Pure Stock). Pkt. 10c; ½ oz. 35c; oz. 60c; ¼ lb. \$1.75; 1 lb. \$6.00.

White Plume—Unsurpassed for Fall and early Winter use, requiring very little earthing-up to blanch it. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.75.

Giant Pascal—The stalks are very large, thick, solid, crisp and of a rich nutty flavor, good keeper. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

M.-S. MAGNIFICENT—It is well named for its many good qualities; it is a semi-late sort, coming into use about January. The stalks which blanch almost white are exceedingly brittle; it is a truly good sort and should be planted extensively. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

M.-S. MONARCH—This variety is a decided acquisition in green Celery, producing large stalks, and magnificent bright golden yellow heart. The stalks are very solid, brittle and of most delicious flavor, and entirely free from stringiness. It is a remarkably good keeper and presents a handsome appearance when ready for the table. Price same as above.

Golden Heart—Largely used, always giving satisfaction; a showy sort; solid, of fine flavor and a good keeper. Price same as above.

Winter Queen—This variety grows a very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. Priced same as above.

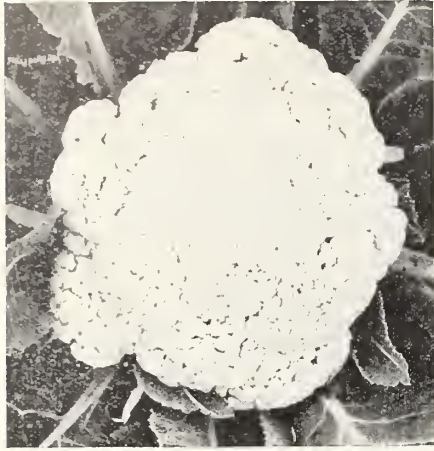
Celeriac

Giant Prague Celeriac—This is unquestionably the largest and best Celeriac in existence, very large, almost globe-shaped, smooth, with only a few roots at the bottom. Flavor is excellent. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

CELERY PLANTS—See Page 5.



The New Celery Golden Detroit Self Blanching.



M.-S. Early Snowball Cauliflower.

Cauliflower

Pkts., ozs., $\frac{1}{4}$ lbs. and 1 lb. postpaid.
(German—Blumenkohl, French—
Chou-Fleur)

One ounce of seed for 1,500 plants.

Culture—When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of Cabbage. For early Fall crops, sow in May and transplant in June, in rows of four feet apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

M.-S. EARLY SNOWBALL—An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to hotbed culture and outdoor. Pkt. 10c, 25c and 50c; oz. \$1.50; $\frac{1}{4}$ lb. \$5.00.

Dry Weather or Danish Giant—The great drought-resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at that season. Pkt. 10c, 25c, 50c; \$1.50 per oz.; $\frac{1}{4}$ lb. \$5.00.

Select Early Dwarf Erfurt—Of highest excellence, and for field culture not much surpassed by any type of newer name. Some so-called new varieties appear to be identical with Select Erfurt. Pkt. 10c, 25c and 50c; oz. \$1.50; $\frac{1}{4}$ lb. \$5.00.

Mr. A. W. Fluaharty, of Preston, Md., tells us that our M.-S. Early Snowball Cauliflower is very fine.

CAULIFLOWER PLANTS, PAGE 5.



CORNSEED is quickly and easily disinfected against Corn root-rots by dusting with Semesan Jr. at the rate of 3 ozs. to the bushel of seed.

For prices see page 50

SWEET, or SUGAR CORN

German—Zuckermals.
French—Mais)

NOTICE: For the convenience of our customers, we have marked five of the best varieties, as they mature in succession. No. 1 is the earliest and No. 5 the latest.

One quart will plant 200 hills; eight quarts in hills to acre.

Sugar Corn varies in weight according to variety. We have decided to list 44 lbs. as a bushel, except Adams, Truckers Favorite and Red Cob or 90 Day, which weighs 56 lbs. to bushel.

Culture—The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and 2 $\frac{1}{2}$ feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

No. 1 Golden Bantam—Extremely early. A true sugar corn. The grain when ripe is a bright golden-yellow, the flavor is exceptionally rich and sugary. Produces from two to three good ears to the stalk. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pt. 25c; qt. 40c; $\frac{1}{2}$ pk. \$1.25; pk. \$2.00; bus. \$6.50.

No. 2 Whipple's Early White—Is an extra early variety with the deep grain of the Evergreen type. Matures in 65 days. Stalks are 5 to 6 ft. high of vigorous growth, ears are produced 1 $\frac{1}{2}$ ft. from the ground, two to the stalk and are 8 inches long, rather "blocky" in form, 16 to 18-rowed, filled to the end with rather narrow, deep wedge-shape grains of pearly whiteness and high sugar content. Price same as above.

No. 3 M.-S. SNOW WHITE EVERGREEN SUGAR CORN—It produces large uniform ears which are well filled to the top with beautiful white kernels; 10 to 12 days earlier than Stowell's Evergreen. Splendid sort for market and home garden; keeps well after being cut. Price same as above.

No. 4 Country Gentleman or Shoe Peg—A short-stalked, productive sort. Ears large for so small a stalk; grain narrow, very deep; excellent quality. Price same as above.

No. 5 Stowell's Evergreen—A favorite late corn for home use, market and canning. Aside from the size of the ears, which are large and well filled, its strong point is that it remains in the green state for a long time. Grains are deep and sugary. Price same as above.

Extra Early Adams—Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pt. 25c; qt. 40c; $\frac{1}{2}$ peck 75c; peck \$1.50; bus. \$5.50.

Early Adams—Similar to Extra Early Adams; larger, but not so early. Price same as above.

Trucker's Favorite—For a second early to follow Early Adams this is unquestionably one of the best; or for planting late to mature quickly it is equally valuable. It is a white corn, with good depth of grain, tender and sweet, and a most desirable size for roasting ears. Besides being a fine garden corn, it is a splendid field corn to follow potatoes and other early crops. The ears are large and well filled. A big advantage in growing Trucker's Favorite is that should you not use it all for roasting ears it will make large ears for making meal or feeding. It makes the largest ear of any early garden corn, averaging over 8 inches long. A fine combination of earliness and size; hardy and can be planted early. Price same as above.

Howling Mob—Another new early Sugar Corn, with fine, large ears, excellent for truckers or the home gardener. Price same as above.

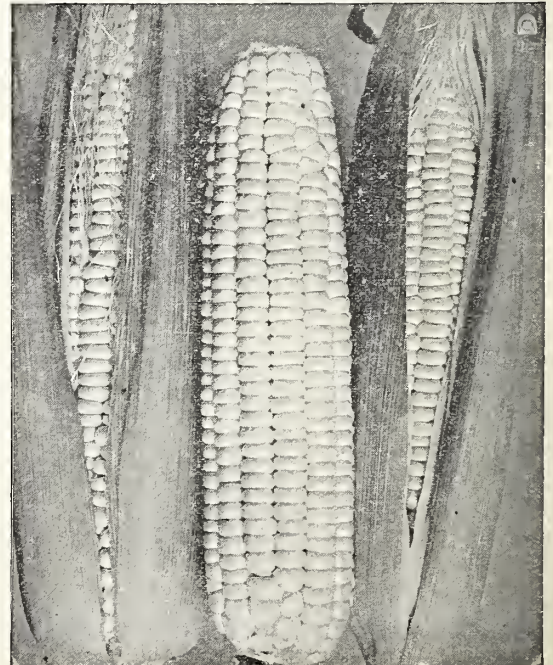
Bardens Wonder Bantam—A yellow sugar corn with all that the name implies, making ears up to 9 $\frac{1}{2}$ inches long; deliciously sweet and of unsurpassed flavor. Matures only about a week later than Golden Bantam. A strong grower and very productive. Pkt. 10c; $\frac{1}{2}$ pt. 20c; pt. 30c; qt. 50c; $\frac{1}{2}$ pk. \$1.50; pk. \$2.50; bus. \$8.00.

Sunshine—A really choice extra-early yellow Sweet Corn, growing 4 $\frac{1}{2}$ to 5 $\frac{1}{2}$ feet tall, with many stalks carrying two ears. The ears are 7 inches long and 1 $\frac{1}{2}$ inches thick at the butt end. The yellow broad kernels are exceedingly sweet. Price same as above.

Red Leaf 90 Day—See page 13.

Black Mexican—An old favorite, being very tender and sweet. Price same as above.

THE VANGUARD—Days to maturity, 65-70. We offer The Vanguard as the most profitable early Sweet Corn under cultivation. This statement is made six years after its introduction, and we still maintain that our claim for it is so far unchallenged by any variety in its class. Vanguard was developed by Mr. A. L. Ritchie, a successful grower and breeder of Burlington County, New Jersey. Our stock is still grown in its home county. It has brought profit to the grower for two obvious reasons: It is the earliest large-eared Sweet Corn we know of, and it has excellent table quality. Each year we are developing a heavier yielding and more uniform strain. Comparative tests have proved it to be at least seven days earlier than Howling Mob. Vanguard will develop an ear in 65 days that is at least 8 inches long. It is well named for it leads the whole procession to market. It takes a large part of the early money. Pkt. 10c; $\frac{1}{2}$ pt. 20c; pint 30c; quart 50c; $\frac{1}{2}$ pk. \$1.50; 1 peck \$2.50; bushel \$8.00.



M.-S. Snowwhite Evergreen Sugar Corn.

For parcel post add 8c per qt., 10c for 2 qts.,
18c for 1 pk., and 50c for 1 bu.

FIELD CORN

8 Quarts to the Acre.

Prices Subject to Change Without Notice.

Boone County White—Recommended by the Agricultural Experimental Stations. A fine, large deep-grained variety, originated by one of the best corn breeders. **Price same as above.**

Collier's Excelsior—White corn, especially adapted for hominy corn on account of its flintiness. Great producer on poor soil. **Price same as above.**

Early Eureka White Ensilage Corn—Very prolific, tall grower. 1 qt. 25c; 2 qts. 40c; 1 pk. 90c; 1 bu. \$2.75.

Red Cob 90-Day Corn—A valuable corn for the truck farmer, as it readily sells for sugar corn on account of its similarity, showing long blades on the ears; very delicious when young. Qt. 25c; ½ pk. 60c; pk. \$1.00; bus. \$3.50.



Maryland Yellow Dent.

Prices on Field Corn do not include postage. For 1 qt. add 8c, 2 qts. 10c, peck 21c, bushel 57c.

LANCASTER COUNTY SURE CROP.

This new variety has been giving excellent satisfaction for the past few years. The ear is 10 to 14 ins. long with 14 to 16 rows of deep yellow broad grains. Height 8 to 10 feet. Season 90 to 110 days. Seed planted June 5, was cut September 5. Especially adapted for thin soil. 1 qt. 25c; 2 qts. 40c; 1 pk. (14 lbs), \$1.00; bu. (56 lbs.), \$3.00.

Collier's Success—The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. Qt. 20c; ¼ pk. 35c; peck 75c; bu. \$2.50.

Yellow Leaning—We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep-well-shaped grains, and will mature in 100 days. **Price as above.**

Golden Beauty—Large, broad-grained, yellow corn. Ears are well filled out. A heavy yielder. **Price same as above.**

Maryland Yellow Dent—Large ear; moderate size stalk; withstands drought well. Qt. 20c; ¼ pk. 35c; pk. 75c; bu. \$2.50.



Gator-Hide Mulch Paper hastens seed germination and promotes growth. Note the better stand and increased size of he mulched Corn as compared with the unmulched. Both planted at the same time. See page 46.

Insure Your Seed Corn Against Attacks of Crows and Pheasants by Using "CRO-TOX"—

It Pays to Use the Best

Try a small can of "Cro-Tox" and be convinced of its merit. It will pay for itself many times over. Enjoy the comfort of planting your corn with the assurance that it will not have to be repelled.

Large size can treats (2 bushels of corn (postpaid)\$1.50

Small size can treats 1 bushel of corn (postpaid) 1.00



Use Pyrox to Get Earlier and Better Germination

Here's the way to get an earlier stand of corn! Plant your seed at the usual time, but before planting . . . give the seed a coat of Pyrox. The results will astonish you! For Pyrox has certain ingredients that make the seed sprout quicker, and help to produce an earlier crop. Pyrox also increases the percentage of seed germination. Actual tests have shown 94 out of 100 seeds germinate when Pyrox is used. But when Pyrox is not used, the germination has been only 70 out of 100.

The cost of Pyrox is very slight! In fact, it costs less than 25 cents per acre to treat your corn! A very wise investment when you consider it means a better crop and no trouble from pests!

This spring, try the Pyrox treatment on your corn. You'll find it a big help in producing a better and earlier crop.

Use Pyrox to Protect Corn Seed from Pests

Pyrox has a very nasty taste. Crows and other pests hate it. That's why they stay away from the hills where Pyrox has been used.

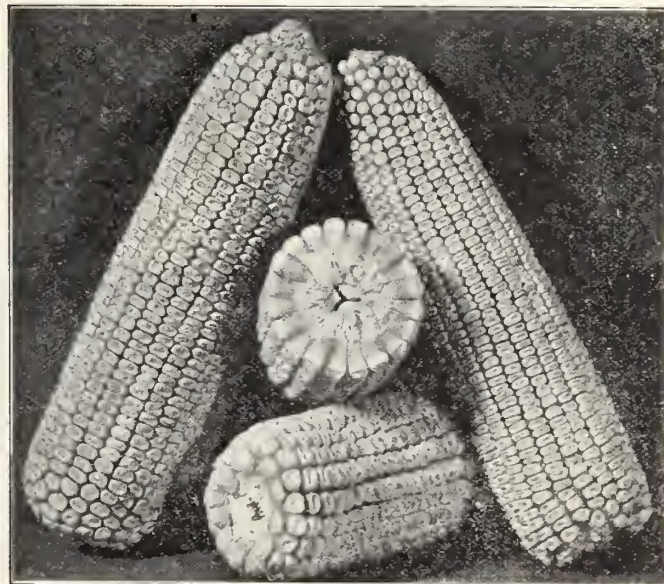
"The crows that fly this way," says J. L. T. Shaw of Bear Hill Farm, "have no use for corn that has been coated with Pyrox. We have found it a safe protection for the seed from the birds, and also from the destructive worms in the soil. It is applied easily, the corn works perfectly in the planter, and the Pyrox seems to help along germination."

Mr. R. J. Fiske, of Lunenburg, conducted an experiment to determine the value of treating seed corn with Pyrox. He writes as follows:

"The corn which I treated with Pyrox this season had nearly a perfect stand, 98 per cent to be exact, and as far as I could observe no depredations by crows. The untreated corn had only about a 10 per cent stand, and of the 90 per cent which did not grow I should say that about 80 per cent was due to crow injury, and about 10 per cent to lack of germination."

The crow is a wise bird . . . it takes more than a scarecrow to keep him away. Use Pyrox! Try it on your seed this year . . . then watch the results. **For price on Pyrox see page 52.** It takes about 1 lb. of Pyrox to treat one half bushel of corn.

JAPANESE HULLESS POP CORN—The best pop corn known. Pops large, flaky and white as snow. **Lb. 15c.**
Wire Corn Poppers, 25c, postpaid 35c.



Boone County White.

All Seeds on This Page Postpaid

Cucumber

(German—Gurke. French—Concombre)

One ounce will plant fifty hills; two pounds, one acre.

Culture—For very early Cucumbers, sow the first of April in a hotbed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.



Clark's Special.

Clark's Special—Extra early dark green and very prolific variety. Fruits average from eight to ten inches in length and have very few seeds. They hold their color both on the vines and after being shipped longer than most other varieties, which is a very valuable feature for long-distance shipping. Vines vigorous and more blight-resistant than most of the White Spine sorts. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Early Fortune—A great favorite with our Anne Arundel County farmers for its early maturity, productiveness, uniformity in large size, dark green color. Price same as above.

Stay Green—Another good shipper of uniform size and dark green color. Price same as above.

New Klondike—One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Boston Pickling—A short fairly smooth, symmetrical cucumber and one of the most popular in use. It is extremely early and productive. Size 6 x 2½ ins. Edible in 58 days. Weight 1½ lbs. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Improved Early White Spine—Old standard favorite. Price same as above.

Arlington White Spine—Another standard sort. Price same as above.

Improved Long Green—Long and crisp; a popular and reliable variety for pickles. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

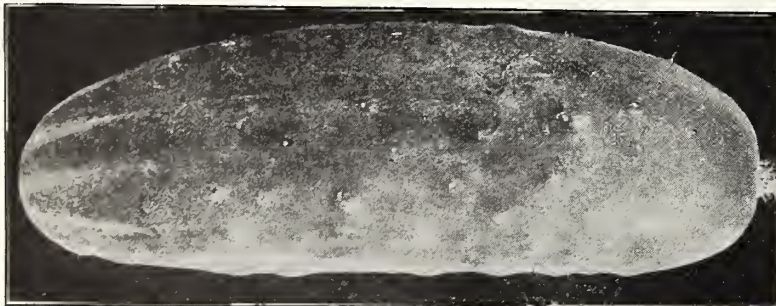
Longfellow—An excellent long, slender, dark green variety equally desirable for greenhouse forcing or outdoor culture. An ideal type for the private garden or as a "straight pack" variety for shipment to market. 12 to 14 inches long by 2½ inches in diameter. W. S. Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

Japanese Climbing—Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable, interesting novelty. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

Jersey Pickle—Productive and said to "green" better than any other variety to "hold color." Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Small Gherkin, or Burr—Used only for pickling while young and tender. Pkt. 10c; oz. 25c.

English Forcing Telegraph Cucumber—These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c; 100 seeds, \$1.25.



M.-S. Cool and Crisp Cucumber.

Lemon Cucumber—A very productive variety with round or slightly oval fruits of light creamy yellow color; of distinctive flavor and desirable quality either for slicing or pickling. The fruits are ready for slicing when just starting to turn yellow. For pickling they may be used either green or ripe. Pkt. 10c.

M.-S. COOL AND CRISP—Ideal for home and market gardening. Extra early and very prolific, long straight, slender and very dark green; good either for pickling or slicing. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.



Early Fortune.

Cress

(German—Kresse)

Water Cress—Sow early in spring near pond or running water; when established will last for years. Pkt. 10c; oz. 50c.

Land Cress or Pepper Grass—Sow in early spring in rows two feet apart, and repeat often as it runs to seed very quickly. Pkt. 10c; oz. 15c; ¼ lb. 30c.

Chervil

(German—Kerbel)

Chervil—Sow like above, used as a salad seasoner. Pkt. 10c; oz. 25c.

Eggplant

(German—Eierpflanze. French—Aubergine)

One ounce will produce about 1,000 plants.

Culture—Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore repeated sowings are some times necessary.

M.-S. Ebony King—As its name implies it is almost black, large size, perfect shape, thornless, great drought resister and splendid bearer. Pkt. 10c; ½ oz. 25c; 1 oz. 50c; ¼ lb. \$1.75.

New York Improved Purple—The leading market variety; of large size, skin deep purple, smooth, free of thorns; flesh white, of excellent quality; very productive. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$5.00.

Black Beauty—The earliest large variety; color, rich, dark purple. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$5.00.

EGGPLANT PLANTS, SEE PAGE 5.



M.-S. Ebony King.

Whitloof Chicory, or French Endive

(German—Succory. French—Chicoree.)

Whitloof Chicory, or French Endive—Known in restaurants as French Endive. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard, which was only planted very sparingly a few years ago. Every garden should have a row of Whitloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results. Whitloof is eaten raw or as a salad, and is also some-times cooked like ordinary Endive. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.00.

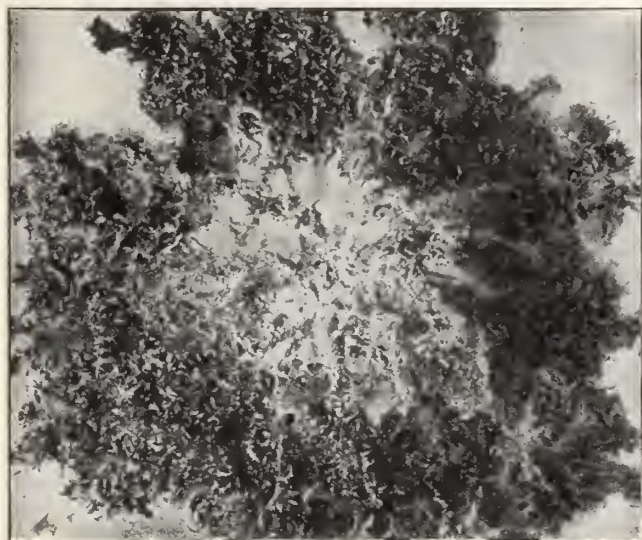
Large Rooted Chicory—The roots are dried and ground and used for flavoring or to substitute coffee. It can also be served like salsify. Pkt. 10c; oz. 25c; ¼ lb. 60c; 1 lb. \$1.75.

**ALL SEEDS ON THIS
PAGE POSTPAID.**

Endive

(German—Endivie.
French—Endive.)

Culture—Sow in June, July and August; cover lightly; when up thin out to eight inches apart, and water well afterwards, if dry. When the leaves are 6 to 8 inches long, blanch by gathering in the hand any tying together near the top with yarn or raffia. This must be done when quite dry or they will rot. At the approach of Winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.



Green Curled Endive.

Green Curled—Tender and crisp. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

White Curled—Self-blanching. Very tender when young; blanches readily. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

Broad Leaved Batavian (Escarole)—This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt. 10c; 1 oz. 15c; ¼ lb. 40c; lb. \$1.25.

Herbs

(German—Kraeuter.
French—Herbes)

Culture—Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.

Anise—Pkt. 10c.

Balm—Pkt. 10c.

Catnip—Pkt. 10c.

Pennyroyal—Pkt. 10c.

Peppermint for Flavoring—Pkt. 10c.

Borage—Pkt. 10c.

Caraway—Seeds used to flavor bread. Pkt. 10c; oz. 25c.

Coriander—Pkt. 10c.

Dill—The seeds are used as a condiment and for pickling. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 75c.

Fennel Sweet—A hardy perennial, indigenous to Southern Europe. The leaves are extensively used in sauces for flavoring. Sometimes eaten raw. Pkt. 10c; oz. 25c; ¼ lb. 75c.

Horehound—For medicinal purposes and flavoring. Pkt. 10c.

Lavender—For flavoring and perfumery. Pkt. 10c.

Rosemary—Leaves used for Seasoning. Pkt. 10c.

Rue—Pkt. 10c.

Sage—For seasoning and dressing. Pkt. 10c; oz. 40c.

Summer Savory—Used for flavoring. Pkt. 10c; oz. 25c.

Sweet Basil—For flavoring soups. Pkt. 10c; oz. 25c.

Sweet Marjoram—Leaves and ends of shoots used for seasoning. Pkt. 10c; oz. 40c.

Saffron—For medicinal and coloring purposes. Pkt. 10c.

Thyme (Broad Leaf)—For seasoning, also for making tea for nervous headache. Pkt. 10c; oz. 50c.

Wormwood—Pkt. 10c.

Finocchio, or Florence Fennel

A delicious vegetable which should be more largely grown. It is extensively used in Italy as a salad, but is particularly palatable when served boiled, with a cream dressing. When the enlargement of leaf stalk, at base of stem, is about the size of a hens egg it should be earthed up so as to cover half of it, and in about ten days cutting for use may be commenced and continued as the plants increase in growth. The flavor is somewhat like celery, but it has a sweeter taste and delicate odor. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

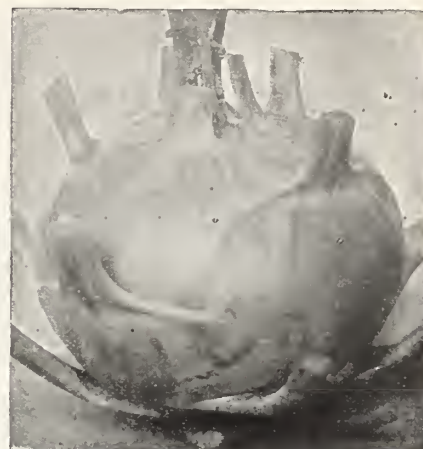
Kohl-Rabi

One ounce will sow
150 feet of drill.

This is a favorite vegetable in Europe, where it is extensively grown for table use. The bulb is formed above the ground, and, if used when young and tender, makes a most delicate dish.

Earliest White Vienna—Greenish white outside, with clear white flesh within. Smooth, short leaf. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

Earliest Purple Vienna—Same in every respect as the Earliest White Vienna, except in the outside color. Price same as above.



Earliest White Vienna Kohl-Rabi.

Kale, or Borecole

(German—Krauskohl.
French—Chou Vert)

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.

Culture—Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter. The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.

M.-S. EMERALD ISLE KALE—This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine plant of medium height. Very hardy. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

Dwarf German Kale—Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

Tall Scotch—Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.

New Imperial Extra Curled Long Standing—The leaves are very crimp and of a dark green color. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Dwarf Green Curled Scotch, or Norfolk—One of the most popular shipping sorts; very largely used in Norfolk trucking district. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 90c.

Borecole, Hardy Winter—

This variety is grown and treated like cabbage. The plant attains a height of 18 in., with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curved leaves as soon as the first ones are gone. This new growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.



M.-S. Emerald Isle Kale.

Spring Kale—A hardy, quick-growing, smooth-leaved variety. Sow at intervals of ten days, so as always to have it young and tender. Pkt. 10c; ¼ lb. 15c; 1 lb. 30c.

BORECOLE PLANTS, SEE PAGE 5.

Mr. J. R. Lilly of Edmondson Ave., Catonsville, Md., says "we have sold more than 1000 packages of your M.-S. Roland Park grass seed without a single complaint. Kindly book our enclosed order for next year."

ALL SEEDS ON THIS
PAGE POSTPAID.**M.-S. CHOICE STRAINS OF LETTUCE**(German—Salat.
French—Laitue)

Two ounces of seed to 100 yards of row; one ounce for 2000 plants

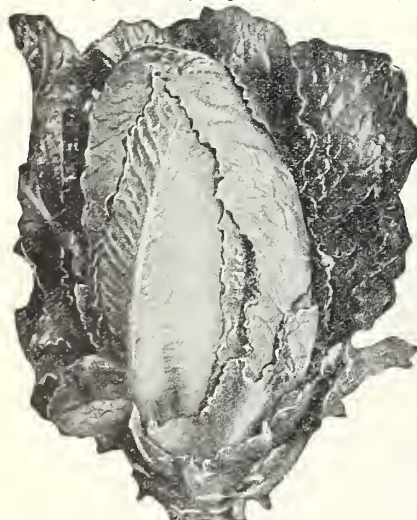
Culture—Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For winter use sow the seed in September in hotbeds and follow it with other sowings for succession.



New York or Wonderful.

New York, or Wonderful; also called Iceberg and Los Angeles—This very large heading lettuce is desirable not only as a garden variety for summer use but is much used as a fall and winter market sort. It is the variety largely grown in California and shipped to eastern markets under the trade name of Iceberg. The plant is very large but compact and tight heading; outer leaves attractive deep green, broad, frilled at edges. The inner leaves form a large head, very sweet and tender when in condition for use. Cultivate same as Big Boston. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75.**

Big Boston—Desirable for forcing and Spring and Fall outdoor planting. Always makes large, buttery heads with thoroughly blanched hearts. The heads are extra large, firm and solid, brittle and buttery; the hearts are crisp and beautifully blanched. **Pkt. 10c; oz. 20c; ¼ lb. 40c; 1 lb. \$1.25.**



Romain White Cos Lettuce.

Romain or Dark Green Cos—Like above but for its color. Price same as above.

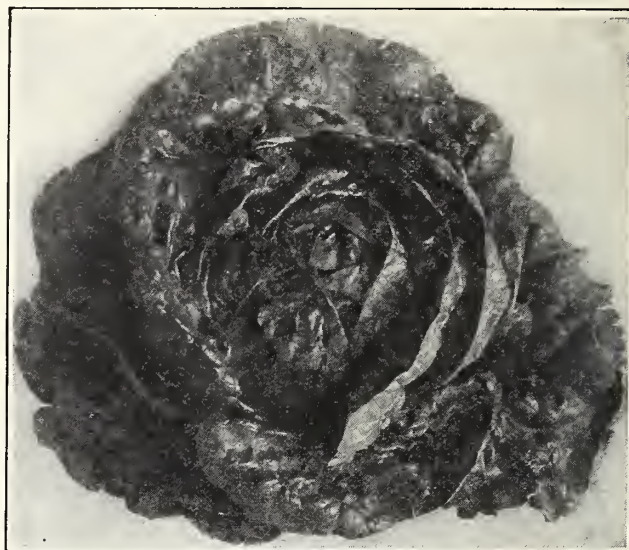
Grand Rapids—Excellent for forcing, fine quality, large, loose, yellowish-green head; stands well. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.25.**

California Cream Butter—A good Summer sort, of reliable heading quality. Yellowish-green, slightly marked with brown specks. Price same as above.

May King—This valuable Lettuce is, without any question, one of the best Lettuces on the list for early Spring planting in the open ground. The heads are 6 to 7 ins. in diameter, of a clear light green, inner leaves bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round, compact heads being so solid that they carry extremely well. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.25.**

Way-a-Head—Similar to the above, but suitable for all-season in or outdoor planting. Price same as above.

Romain White Paris Cos—Has long, narrow upright leaves; does not head, but when tied up blanches very nicely. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.**



White Boston Lettuce.

M.-S. BELVEDERE LETTUCE—In 1912 we introduced this grand Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. The **M.-S. Belvedere** is extremely slow in running to seed; it is therefore the ideal Lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75.**

WHITE BOSTON SPECIAL—A new, very high-class strain of the pale green-leaved Big Boston type without the red-tinged leaf-edge. A surely dependable sort for growing in coldframes and for first field-planting in the early spring. Lettuce from this strain is not quite as large-framed but it cuts nearly as heavy in number of crates as the regular Big Boston, and it sells quicker and at higher prices. Many fields gave a 90 per cent first cutting for early market at top prices. The heads show comparative freedom from tip-burn. Price same as above.

Early Curled Simpson Lettuce—Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. **Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.25 B. S.**

LETTUCE PLANTS POPULAR VARIETIES, SEE PAGE 5.

Gentlemen:—During the past year we handled your **M.-S. Roland Park Grass Seed** and had many resales. Our customers tell us it is the best seed they have ever sown and makes an attractive lawn under conditions where other grass would not grow.—**ZALK'S HARDWARE STORE, 2828 Edmondson Avenue, Baltimore, Md.**



M.-S. Belvedere Lettuce.

We Pay Postage on Seeds Only on This Page

Leek

(German—Lauch. French—Poireau)

One ounce to 150 feet of row.

CULTURE—Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

Giant Carentan—Produces a large, thick stem and of mild flavor. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75.

American or Flag—One of the hardest and best for Winter use. Price same as above.

Pure Culture, Spore Process Mushroom Spawn



Mushrooms.

The best procurable; making cream colored mushrooms.

1 brick 25c (postpaid 32c); 5 bricks \$1.00 (postpaid \$1.15); 25 bricks \$4.50 (postpaid \$4.85); 50 bricks \$8.50 (postpaid \$9.10); full case, 100 bricks, \$16.00. Express or freight.

Book: CULTIVATION OF THE MUSHROOM, giving full instruction how to grow this delectable vegetable, price 50c postpaid.

Mushroom, or Hotbed Thermometers—Wood frame, heavy brass point. Price, \$3.00. Parcel post weight, 2 lbs.

Mustard

(German—Senf. French—Moutarde)

One ounce will sow 100 feet of drill.

CULTURE—A small, pungent salad, used like cress; the white seed is also used for flavoring pickles, pepper sauce, etc. For salads sow thickly in shallow drills 6 inches apart. Since plants go to seed quickly, short rows should be sown frequently, rather than long ones at one time. Successive sowings can be made every week or two. To grow white seed, sow in April, in rows 1 foot apart, and thin out to 3 inches apart when 2 inches high.

Chinese—Large, light green leaves, frilled at edge. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

Southern Giant Curled—Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

White English—Used mostly for the white seeds. Price same as above.

Okra, or Gumbo

(German—Safran)

Four ounces to 40 ft. of drill.

CULTURE—Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm, in drills three feet apart, one inch deep; thin to 10 inches apart in drills. Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

White Velvet, or Lady Finger—Bears round, white, smooth pods, unlike other varieties, which are ridged or square edge. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

Improved Dwarf Green Prolific—Of dwarf growth, but immensely productive and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt. 10c; oz. 15c; ¼ lb. 20c; lb. 60c.

Perkins' Mammoth Podded—The pods are of an intense green color, of unusual length—8 or 9 inches. Very superior for canning. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.



Prizetaker Onions Produced from Seed.

Onion

(German—Zwiebel. French—Eignon)

American Grown Seed. One ounce for 100 feet of drill; six pounds for one acre.

CULTURE—For sets sow the seeds early as possible in the Spring, very thickly in drills. As soon as the tops dry off in the Summer remove them to a dry, airy place, and early in the following Spring replant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions of this process obtained are of large size early in the season, also will be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch deep in March or in early April, in strong land, well manured, and thinning them out to stand 3 or 4 inches apart in the drills.

Prizetaker—This is the large, pale yellow onion that is offered for sale in fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised the first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75.

Yellow Globe Danvers—One of the most extensively used yellow onions. Price same as above.

Large Red Wethersfield—Grows to full size the first season from seed; almost round, large size, deep red color, and keeps well. Price same as above.

Australian Brown—A brown skinned onion which grows to a good size the first season. Price same as above.

White Silverskin—Ripens early; of large size, mild in flavor and excellent for Winter use; much esteemed for pickling when small. Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.25.

Southport White Globe—The earliest of the Southport Globes, perfecting a very handsome product within 90 days from sowing seeds. The bulbs are pure white and of a very mild flavor, also equally as good for keeping as the Yellow Globe. The flesh is remarkably firm and solid. It is an enormous yielder, and as it is very attractive, always sells at high prices. Price same as above.

White Bermuda—They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. Pkt. 10c; oz. 50c.

CHIVES (Schnittlauch)—Very mild onion flavor, used with cottage cheese and on egg omelettes. Pkt. 10c; oz. 75c.

ONION PLANTS, SEE PAGE 5.

Onion Sets

One quart will plant a row about 50 feet; 10 to 15 bus. to 1 acre.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb lightly in the ground and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting sets lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.

For parcel post add to all pts. 7c, qts. 8c, ½ peck 10c, peck 15c, bus. 40c.

Yellow Danvers—Pt. 15c; qt. 25c; ½ peck 50c; peck 90c; bushel of 32 lbs. \$2.75.

Japanese, or Ebenezer Onion Sets. This variety is globe-shaped, about the color of a yellow Danver, is very solid and has a mild flavor. It will keep longer than any other variety. Price same as above.

Large Red Wethersfield—Price same as above.

White Silver Skin—Pt. 15c; qt. 25c; ½ peck 65c; peck \$1.00; bushel of 32 lbs. \$3.00.

Multiplier Onion Sets, yellow and white and Egyptian Top Onion, Brown, furnished in September and October. Market price. Price on Onion Sets subject to change.

Prices on larger quantities furnished on request.

We Pay Postage on All Seeds on This Page

MUSKMELONS, or CANTALOUPE(German—Melone. French—Cantaloup)
One ounce will plant about 50 hills; two to three pounds in hills to one acre.

The term "cantaloupe" as applied to muskmelon first came into use through its being grown near the Castle of Cantalupo in Marca d'Ancona, Italy. The term "cantaloupe" as applied to muskmelon leads to some confusion. Generally speaking in the United States the term "cantaloupe" is applied to those muskmelons which are adapted to long distant shipping and are, generally speaking, medium size, oblong, heavily netted fruits with practically no trace of lobes or ribs.

In vitamins muskmelons rank equally well with fresh orange juice and pineapple and contain the same quantities of vitamins A, B and C. The composition of the edible flesh of muskmelon contain an average of 90 per cent water, six-tenths of one per cent protein, one-fifth of one per cent fat, and about one-tenth of one per cent ash with some little variation in the per cent of invert sugars ranging from five to ten per cent—depending on the degree of ripeness—possibly a fair average being seven per cent. In calories the content is about twenty-eight per 100 grams or 125 calories per pound. There is also a trace of citric acid.

Muskmelon cannot be crossed with any other of the Cucurbit family, and therefore, Cucumber, Squash, etc., can be planted adjoining without damage.

CULTURE—Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on piece of sod or in pots.



Bottomly Cantaloupe.

Green Fleshed Varieties

M.-S. BLIGHT RESISTING—Extremely early, blight resisting, medium size, green fleshed, heavily netted and ribbed, ribs showing green mark. Excellent flavor and very sweet. First class shipper. Seed very scarce. Pkt. 10c; oz. 20c; ¼ lb. 75c; 1 lb. \$2.75.

LONG JOHN—This is a product of Anne Arundel County which is famous for its fine Cantaloupes. It averages 8 to 10 inches, some specimens growing a foot long, deeply netted and ribbed, green-fleshed, thickly meated and deliciously flavored. Main crop variety. Seed scarce. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

Bottomly Cantaloupe—True Anne Arundel strain. Great favorite with the Anne Arundel County truckers and private gardeners. Medium size, oblong, deeply netted, green flesh and delicious flavor. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.75.

Rocky Ford—We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

We do appreciate hearing from pleased customers.

The Roland Park grass seed which you sold me is very fine.

LOUIS B. KOOP,

2031 E. 31st St., Baltimore, Md.

Acme, or Baltimore Nutmeg—A great favorite for retail market and for shipping. Large, oval, deeply netted, solid and of fine quality; green fleshed. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Jenny Lind—Very early, small, round, netted and of fine quality; green fleshed. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Knight Cantaloupe—True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.75.

Montreal Market—The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

New Honey Dew—Produces a melon with smooth, almost white rind, measuring about six inches in diameter by seven to eight inches long. The green flesh is thick and is of a peculiar sweet flavor, resembling a well-ripened banana. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

Pink Fleshed Varieties

Hearts of Gold, or Hoodoo—An orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Vine vigorous, remarkably blight-resisting and very productive. Fruit of medium and very uniform size. Netting exceptionally fine and dense, extending practically over the entire surface. Rind thin, yet very firm, so that the melons arrive in perfect condition in distant markets. Flesh thick, firm, highly colored, of fine texture and delicious flavor. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

M.-S. DELICIOUS GOLD-LINED ROCKY FORD CANTALOUPE—Its shape is ideal, very slightly oval, no ribs, and is heavily netted over the entire melon. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

Emerald Gem—Small, green skin, and delicious yellow flesh. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

Miller's Cream, or Osage—Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

Banana—This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

HONEY DEW—Pink-fleshed, same as the above with the exception that the flesh is of a beautiful pink tint and highly flavored. Price same as Green-Fleshed.

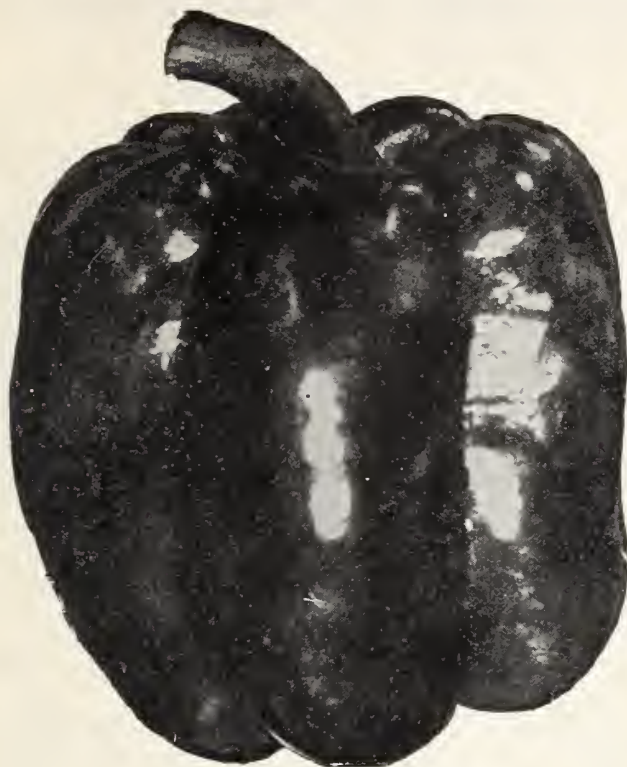
SALMON-TINT No. 10-25—This is an early melon of the solid netted type that is so desirable. Very small seed cavity, with thick, luscious flesh of genuine salmon-tint shading to green near the rind. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

M.-S. GOLDEN WONDER CANTALOUPE—Most delicious flavored golden yellow meat, which is thick and solid. Medium size, oval in shape, very vigorous and productive vines, which are great drought and blight resisters. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.



A TEST OF THE DOMINION EXPERIMENTAL FARM. The row on the left (unmulched) gave 26 Melons, weighing 31½ lbs. The row on the right (mulched) gave 121 Melons, weighing 142 lbs. For prices see page 46.

We Pay Postage on all Seeds on This Page



California Wonder Pepper.

Pepper

(German—Pfeffer. French—Poivre)
One ounce will produce 1,000 plants.

CULTURE—Sow in hotbeds in March or April, or on a warm, sheltered border in May; when the season is favorable transplant in rows 2 feet apart and 18 inches in row, in good, rich ground.

CALIFORNIA WONDER PEPPER—Introduced in 1925. This pepper while similar both in size and shape to the Chinese Giant, is a much heavier and thicker meated pepper, the meat being about three times as thick as the Chinese Giant. The flavor is sweet, excellent, and the keeping quality could not be better. It will outkeep a Chinese Giant Pepper by many days. A medium size pepper will average $\frac{1}{2}$ lb. or better in weight when ready for marketing. It is an excellent shipper, uniform in shape and size. Pkt. 10c; 1 oz. 60c; 2 ozs. \$1.00; $\frac{1}{4}$ lb. \$1.75; 1 lb. \$6.00.

M.-S. Everbearing Sweet Pepper—Early, large, productive and of finest quality. The flesh is so thick and the meat so tender, that it can be fried like meat; it is so sweet that it may be eaten like an apple. Pkt. 10c and 25c; $\frac{1}{2}$ oz. 35c; 1 oz. 65c; $\frac{1}{4}$ lb. \$2.25; 1 lb. \$8.00.

Large Bell or Bull Nose—Large, early variety; hot flavor, thick and fleshy. Pkt. 10c; $\frac{1}{2}$ oz. 20c; oz. 35c; $\frac{1}{4}$ lb. \$1.00; 1 lb. \$3.25.

Chinese Giant—This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very shy seeder. Fine for stuffed mangoes. Pkt. 10c; oz. 50c; $\frac{1}{4}$ lb. \$1.75; 1 lb. \$6.00.

Perfection Pimiento Pepper—Very fleshy and sweet. Pkt. 10c; $\frac{1}{2}$ oz. 30c; 1 oz. 50c.

Long Red Cayenne—Long, slim, and very pungent. Pkt. 10c; $\frac{1}{2}$ oz. 20c; 1 oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Ruby King—Good for Mangoes or pickling, very sweet. Large, quite productive. Pkt. 10c; $\frac{1}{2}$ oz. 20c; 1 oz. 35c; $\frac{1}{4}$ lb. 90c; 1 lb. \$3.25.

Small Chili—Small, conical pods. Very hot. Pkt. 10c; $\frac{1}{2}$ oz. 30c; 1 oz. 50c.

Red Cherry—A small round pepper, very hot. Pkt. 10c; $\frac{1}{2}$ oz. 40c; 1 oz. 75c.

Neapolitan—Grows a long shape and somewhat narrow; stands upright on the bushes. Sweet, bright red; and very early. Pkt. 10c; $\frac{1}{2}$ oz. 20c; 1 oz. 35c; $\frac{1}{4}$ lb. \$1.00; 1 lb. \$3.50.

Golden Dawn—A large yellow variety, very sweet. Pkt. 10c; $\frac{1}{2}$ oz. 35c; 1 oz. 60c.

PEPPER PLANTS LISTED ON PAGE 5.

WE DO APPRECIATE HEARING FROM PLEASED
CUSTOMERS

Parsley

(German—Petersilie. French—Persil)

One ounce to 150 feet of drill.

CULTURE—Parsley requires rich, mellow soil. The seed is even slower than Parsnip in germinating, and should be sown as early as possible in the Spring, in drills one foot apart, and when the plants are well up thin to one foot in the row. When the plants are about three inches high, cut off the leaves, the plant will start a new growth.

M.-S. GREEN CURLED BEAUTY PARSLEY—Very handsome, dark green, beautifully curled. Dwarf habit, hardy and productive; very slow going to seed; it can be cut the year round. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; 1 lb. \$1.25.

Champion Moss Curled—A distinct variety of unequalled merit, beautifully crimped and curled. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 75c.

Green Mountain Parsley—Beautifully crimped and curled; perfectly hardy and vigorous grower. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 75c.

Hamburg, or Rooted—Edible roots. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; 1 lb. \$1.25.



M.-S. Green Curled Beauty Parsley.

PARSNIP

(German—Pastinake. French—Fannais)
One ounce for 200 feet of drill; five to six pounds for an acre.

CULTURE—Sow as early in the Spring as the weather will permit, in drills 16 inches apart and one-half inch deep, in a rich, deep soil; thin out to six inches apart in the rows. The quality of the roots is improved by leaving them in the ground over Winter for Spring use.

Improved Hollow Crown—The best variety. A great cropper, roots long, very smooth, white, tender, sugary, and of excellent flavor. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.



Improved Hollow Crown Parsnips.

M.-S. Improved Jumbo Peanuts

(German—Erdnuesse. French—Pistache de terre)

CULTURE—Plant in May or early June, in rows about 2 $\frac{1}{2}$ to 3 feet apart, dropping the nuts 8 to 10 inches apart, one in a hill. Cover 1 or 2 inches deep. Cultivate three or four times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a shallow turn-plow throw the dirt to the nuts. Price— $\frac{1}{4}$ lb. 15c; $\frac{1}{2}$ lb. 20c; 1 lb. 35c. Special price on large quantity.

SEMESAN PRODUCES FINER VEGETABLES—Plant and seed diseases are responsible for poor yields and the unblemished quality of many popular vegetables. The best means of eliminating such wastes, consists of preventing the cause at its source by the disinfection of vegetable seeds with SEMESAN. For prices see page 50.

M.-S. SUPERIOR HAND PICKED PEAS

(German—Erbsen. French—Pois)

PRICES ON LARGER QUANTITIES ON APPLICATION.

Sow one quart of seed to 200 feet of row; and one-half to two bushels to the acre in drills.

Prices on all Pea Seeds are subject to market changes.

CULTURE—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well-rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet apart, or in double drills, 6 to 8 inches apart, 1 inch apart in the drill, and not less than 4 inches deep, for late sorts 5 to 6 inches deep. Deep planting prevents mildew.

IF TO BE SENT BY PARCEL POST, add to $\frac{1}{2}$ pt. 7c; pint 8c; quart 9c; $\frac{1}{2}$ peck 15c; peck 22c; bushel 67c.

Extra Early Varieties

(Weight 60 lbs. per bushel)

Early Bird—As early as Alaska and First and Best. As large as Thomas Laxton or Gradus. Dwarf, vigorous vines about 2 feet high, covered with immense well-filled pods. Perfectly hardy. Can be planted as early as any variety. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pint 25c; quart 40c; $\frac{1}{2}$ pk. \$1.40; peck \$2.50; bushel \$9.00.

Mammoth Podded Extra Early—On the order of First and Best, but pods one-fourth larger. Matures practically with First and Best and Alaska, and is much more productive. Vine and foliage robust, heavy and deep green. Height 3 feet. Pods dark green, 4 inches long, round, broad, saddle backed and square ended, containing seven extra large light green peas. A very productive and extra fine sort, bound to take first place as a leading market gardener's first early pea. Price same as above.



Early Bird Peas.

For the convenience of our customers, we suggest the varieties listed below, for successive planting and maturity.

These peas succeed each other in their numerical order as listed.

No. 1 Early Bird

No. 2 M.-S. World's Record

No. 3 M.-S. Little Marvel

No. 4 Daisy or Dwarf Telephone

No. 5 Telephone

Long Podded Alaska—Vines of this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. Price same as above.

Extra Early Alaska—Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pint 25c; quart 40c; $\frac{1}{2}$ pk. \$1.25; peck \$2.25; bushel \$8.00.

Pedigree First and Best—An excellent strain of first early peas; very popular and largely planted throughout trucking sections. Height 2 to 2½ feet. Price same as above.

Prolific Early Market—This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. Price same as above.

Extra Early Wrinkled Varieties

(Weight 56 lbs. per bushel)

M.-S. WORLD'S RECORD—Medium vines of dark green color and heavy foliage, bearing large handsome well-filled pods measuring sometimes 4 inches and longer, filled with from 8 to 12 tender, luscious peas. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pint 25c; quart 40c; $\frac{1}{2}$ pk. \$1.40; peck \$2.50; bushel \$9.00.

Laxtonian—A dwarf pea with large handsome pods. It is slightly earlier than Gradus, maturing about the same time as Thomas Laxton. Vines medium dark and medium heavy of foliage. Pods 3½ to 4 inches long, slightly curved. Will bear more abundantly at top of vines, making it easy to pick, very heavy yielder. Price same as above.

Blue Bantam—A splendid large-podded dwarf variety of the Laxtonian class. Height 2 feet. Vine and foliage stout and healthy, medium dark green; pointed pods dark green, 4 inches long, broad and straight, containing 6 to 8 deep green peas of excellent quality. Price same as above.

Thomas Laxton—An exceptionally fine variety, growing three feet in height and yielding large podded peas, 4 to 5 inches in length, of the finest flavor, very early. Price same as above.

Gradus, or Prosperity—One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlies, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Price same as above.

Medium Early Wrinkled Varieties

(Weight 56 lbs. per bushel)

M.-S. LITTLE MARVEL PEA—An extremely valuable variety, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with 7 to 8 peas of extra fine flavor. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pint 25c; quart 40c; $\frac{1}{2}$ pk. \$1.40; peck \$2.50; bushel \$9.00.

Nott's Excelsior—Resembling Little Marvel in habit and growth. Price same as above.

Daisy, or Dwarf Telephone—The striking features of the Daisy pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods. Price same as above.

Pot Latch—Resembling Daisy, or Dwarf Telephone in habit and growth. Price same as above.

Medium and Late Varieties

(Weight 56 lbs. per bushel except in Sugar Marrow)

Telephone—For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods 4 to 4½ inches long, are light green in color and filled with large, sweet, tender peas. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pint 25c; quart 40c; $\frac{1}{2}$ pk. \$1.50; peck \$2.50; bushel \$9.00.

Champion of England—A standard pea; vines grow 4½ feet high and bear medium-sized pods of peas of good quality. Price same as above.

Improved Sugar Marrow Peas—We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pkt. 10c; $\frac{1}{2}$ pt. 15c; pint 25c; quart 40c; $\frac{1}{2}$ pk. \$1.25; peck \$2.25; bushel \$8.50.

Dwarf Melting Sugar—The pods as well as the peas of this variety are edible and both very sweet. Pkt. 10c; $\frac{1}{2}$ pt. 20c; pint 35c; quart 60c.

POTATOES

Subject to Market Fluctuations.
Prices on large quantities furnished
on application.

(German—Kartoffeln. French—Pomme de Terre)



M.S. Fill Basket.

Present price of all kinds: Peck 50c; bushel \$1.75;
Sack of 165 lbs. \$3.50.

Potato prices subject to market fluctuation.

If wanted by parcel post, first and second zones,
add to peck 22c, to bushel 67c.

Prices on quantity of Potatoes furnished on application.

CULTURE—Planting may commence as early in the Spring as
the ground can be worked. Place one piece every twelve inches
in rows two and one-half feet apart, covering about four inches.
When cutting the seed allow two eyes to each piece.

Eight to ten bushels will plant one acre.

Red Bliss—Very early, thin, red skin, round, white flesh.

Irish Cobbler—This is an early potato of exceptional merit,
which has given our trade entire satisfaction. The shape is
round. Flesh is white and the eyes strong and deeply set.

Houlton Early Rose—The Houlton strain of the old favorite
Early Rose has been the most popular on our market in recent
years.

M.S. FILL BASKET—On account of the large yields that have
been reported on this potato, our sales on it have increased won-
derfully. It is of handsome shape and most desirable for
the best trade. It is a vigorous grower, ripens uniformly, is a
good keeper, medium late. The vines are always very heavy, the
seed being especially vigorous, and tubers always good size,
where soil is well tilled. Very smooth and a good cooker.

Improved Green Mountain, Prosperity and Dakota Reds (all
three late sorts). Prices furnished on application.

Choice Seed Sweet Potatoes, Leading Varieties—Prices on ap-
plication. Sweet Potato Plants. SEE PAGE 5.



Paper-Mulched.

Excelsior-Mulched.

No Mulch.

The paper-mulched area yielded 29.2 barrels of prime Potatoes,
while the excelsior-mulched and the area not mulched yielded
only 7.6 and 8.3 barrels respectively. Plots were of equal area
and received the same amounts of fertilizer.

MULCH PAPER IS LISTED ON PAGE 46.



SEMESAN BEL

America's Premier Potato Disinfectant

SEMESAN BEL acts as an antiseptic that
either kills or retards the development of
disease producing bacteria and fungi, as
well as other similar parasitic organisms
that may not produce disease results but
which feed on the seed pieces, causing
handicapped sprouting and weak or stunted
growth of plants. 1 lb. \$1.75 will treat
10 bushels; 5 lbs. \$8.00.

POTATO SCAB DESTROYER (Formaldehyde)

Dilute 1 quart in 25 gallons of water and soak the seed
potatoes in this solution for 2 hours before cutting. They
should then be taken out and dried; 25 gallons treating liquid is
sufficient for approximately 15 bushel potatoes. 1 pt. 50c;
1 qt. 90c; 1 gal. \$3.00. Not available.

Pumpkins

(German—Kurbiss. French—Potiron)

We pay postage on pkts., ozs., ¼ lbs. and 1 lbs.

One ounce for fifteen hills; three to four pounds plant an acre.

CULTURE—Sow in the month of May. Make hills the same as
you do for squashes, but do not make the hills too close.

M.S. YANKEE PIE PUMPKIN—The best Pie Pumpkin that
grows. Strong vines bearing an abundance of good keeping, large
handsome pear shaped, golden yellow pumpkin, which are so
sweet that they require very little sugar and ripen early. Pkt.
10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

King of the Mammoths, or Pot Iron—An immense variety,
which always wins the prize offered for the largest and best
pumpkins; grown to weigh over 200 pounds. Flesh of a rich,
golden yellow; a splendid keeper. Price same as above.

Cushaw, or Winter Crookneck—An old standard variety, which
is very popular. It is also used for feeding stock. Long yellow
crookneck, fine grained yellow flesh, very solid. Pkt. 10c; oz. 15c;
¼ lb. 30c; 1 lb. \$1.00.

Cushaw Striped—Same as above, but it is green and white
striped. Price same as above.

Japanese Pie—Flesh very thick, rich salmon color, fine grain,
dry and sweet. Price same as above.

Tennessee Sweet Potato—Excellent for pies; pear-shaped, me-
dium size, flesh and skin creamy white, fine grained, sweet, a
first rate keeper. Price same as above.

Winter Luxury Pumpkin—A very good keeper and a splendid
pie Pumpkin; shape round; skin finely netted, and beautiful rus-
set-yellow color; flesh thick and of fine flavor. Price same as
above.

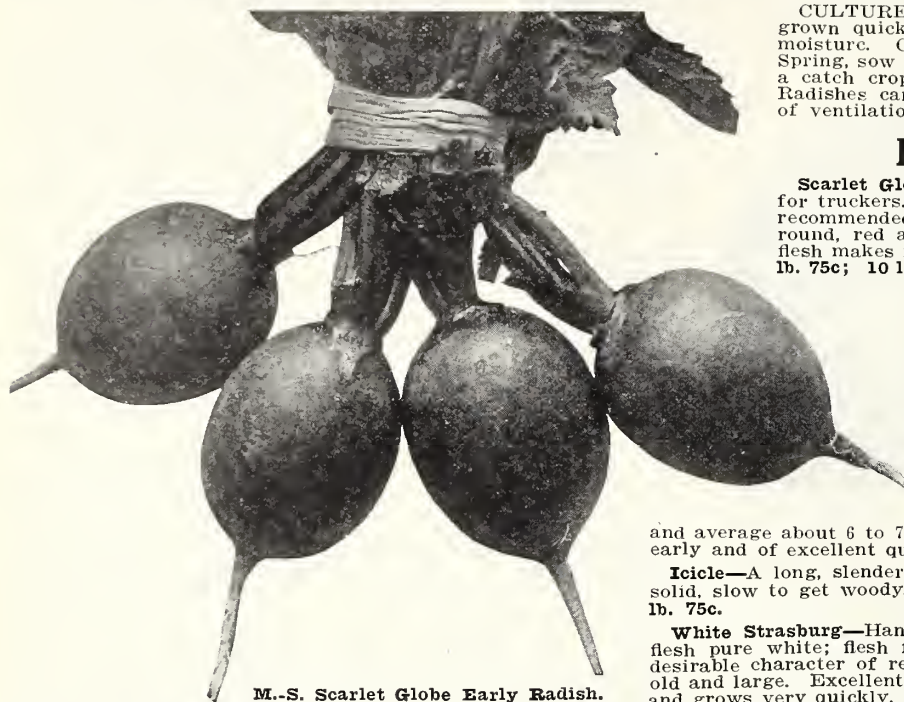
Sugar, or New England Pie—For making pies this variety can-
not be excelled. The Pumpkins are small but very sweet, fine
grained and of the best quality. Price same as above.

Common Yellow, or Connecticut Field—Very productive; for
feeding stock. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.



King of the Mammoth or Pot Iron Pumpkin.

M.-S. SELECTED RADISH SEED



M.-S. Scarlet Globe Early Radish.

New Glass, or Cincinnati Market—A long Scarlet Radish. A fine radish for the home garden as well as an attractive

White Turnip (Short Top)—Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

White-Tipped Scarlet Globe—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Ruby King, Extra Early—Of brilliant red color, fine for forcing or open ground; roots are tender; juicy and mild. One of the best round red Radishes that grow. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

M.-S. EARLY CARDINAL RADISH—These are the best little crisp red radishes, which come so early in the season; they grow globular in shape and are of the most brilliant cardinal red color; are tender and crisp; will stand the heat and are fine for forcing. The most desirable for home garden and market gardeners' use. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c.**

Crimson Giant—Like above, but much larger. Very desirable. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Strawberry—The exceptional merit of this radish is proved by its popularity increasing every year with successful market gardeners. This radish is a table dainty, crisp, tender and sweet; it is turnip shaped, bright scarlet color, and is a high class strain for outdoor planting. It combines beautiful appearance with finest radish quality—appealing to the eye and palate. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Summer Varieties

Large White Stuttgart—Very large, top-shaped, flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for winter. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Large White Summer Turnip—Round, smooth, and very white; crisp and tender. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Golden Globe—A favorite summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Improved Chartier—Somewhat resembling Cincinnati Market radish. It is double the size and later; long scarlet and tipped with white. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Winter Varieties

Long Black Spanish—Large radish, with black skin and white firm flesh; grows 6 to 8 inches long. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.**

Round Black Spanish—Like the above, except that it is round shape. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.**

Long White Spanish—Like the Long Black Spanish, only different in color. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.**

Round White Spanish—Like the Round Black, but white. Like all the Spanish radishes, which are fine keepers, mild flavor and brittle. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.**

China Rose, or Scarlet China—Bright rose-colored, stump-rooted, of excellent quality. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.**

White Chinese, or New Celestial—Large stump-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 85c.**

Sakurajima (Mammoth Japan)—The largest sort in cultivation. Sow in rich soil. In Japan it grows as much as 21 inches long and 43 inches in circumference. Thin well to allow of proper development. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

HORSE RADISH. (German—Meerrettig; French—Raifort)—SEE PAGE 5.

(German—Radies. French—Radis)

WE PAY POSTAGE ON PKTS., OZS., ¼ LBS. & 1 LBS.
One ounce for 50-foot drill; 10 lbs. in drills to one acre.

CULTURE—To be tender and crisp Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.

Extra Early Varieties

Scarlet Globe Early—M.-S. Strain—Highly recommended for truckers. This variety can be used for forcing and is recommended for early outdoor planting. It is small, round, red and of excellent flavor; its rich, crisp, tender flesh makes it very popular. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c; 10 lbs. \$7.00; 25 lbs. \$15.00.**

French Breakfast, Early—Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, tipped with white. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Early Long Scarlet Short Top—The principal outdoor quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about 8 inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Long White Vienna or Lady Finger—Has slender pure white roots which are smooth and average about 6 to 7 inches in size when matured. They are quite early and of excellent quality. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

Ice-icle—A long, slender radish. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

White Strasburg—Handsome, oblong, tapering shape, both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**

with a distinctive white tip. A suitable radish for deep mellow soil. one for the market stall. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.**



French Breakfast Radish.

All Seeds on This Page Postpaid

Rhubarb

(German—Rhababer. French—Rhubarbe)

Culture—Sow seed in a cold-frame, in a fine, rich sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed.

If our two-year-old roots are used, a crop may be had the same season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

Myatts Victoria—The leading variety. Pkt. 10c; oz. 20c ¼ lb. 60c; 1 lb. \$1.50.

ROOTS—SEE PAGE 5.

Salsify, or Oyster Plant



Mammoth Sandwich Island
Salsify.

(German—Haferwurzel. French—Selsif)

One ounce to seventy feet of drill; about eight pounds to the acre.

Culture—Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

Mammoth Sandwich Island—This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market gardeners and truckers.

Pkt. 10c; oz. 20c ¼ lb. 60c; 1 lb. \$2.00.

Swiss Chard, or Spinach Beet



Giant
Lucullus
Swiss
Chard.

German,
Beisskohl.
French,
Poirée.

Cultural Directions. Swiss Chard is a beet grown for its leaves. The mid-rib when boiled makes delicious greens, or the leaves may be boiled and served as spinach. Sown in the Spring the leaves are soon ready to eat and will continue to grow all through the summer and fall. If given a little protection it will survive the winter and make excellent greens early in the spring. One ounce will sow 60 ft. of drill.

M.-S. Delmonico—This makes large, handsome, finely crimped light green leaves, which are tender and have a delicious flavor, the ribs are edible and not unlike asparagus. Absolutely the best for home gardens. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

Giant Lucullus—The leaves of Swiss Chard are used as greens cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

Fordhook Giant—Decidedly the best of the Chards. Leaves broad, upright in growth, and very dark green, crumpled or savoyed, with broad, white mid-rib. Pkt. 10c; oz. 25c; ¼ lb. 90c; 1 lb. \$2.50.

Vegetable Marrow

Cocozelle di Napolie—Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

Cucuzzi Caravazzi—Similar to the above, but the color is light green. Great favorite with the Italians. Price same as above.

Sorrel, or Sourgrass

(German—Sauerampfer. French—Oseille)

Culture—Sow in Spring in drills 18 inches apart, in a rich soil and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Large French—Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

Squash

(German—Gemuese Kurbis. French—Courge)

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.

Culture—Squashes should be planted in a warm, light, rich soil after the weather has become settled and warm, about the middle of May or June. Plant in well-manured hills, in the same manner as Cucumbers and Melons—the Bush Varieties 3 to 4 feet apart each way, and the running kinds from 6 to 8 feet. Eight to ten seeds should be sown in each hill, thinning out after they have attained their rough leaves and danger from bugs is over, leaving three to four of the strongest plants per hill.

M.-S. PERFECTION BUSH—This is the finest scalloped white squash that grows, obtaining large size but stays tender as butter for a long time. The best for home gardens and market gardeners. Pkt. 10c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25.

Early Mammoth White Bush—An excellent strain. Early, prolific, much larger than the old White Bush. Splendid for market, best for shippers. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

GREEN TINTED BUSH—Particularly desirable for Market Gardeners on account of its green tinted, well scalloped, uniform small sized fruit. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

Summer Crookneck, Bush Variety—About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

Hubbard—An excellent keeper; splendid quality. Vines of strong running growth. Large olive-shaped fruits with dark green skin; very rich flesh. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

Golden Hubbard—Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, dry, fine grained and richly flavored. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

Boston Marrow—This is a large-fruited, hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine, extensively used for pumpkin pies. Fine, strong running growth. Very productive, oval shape. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

Blue Hubbard—A new variety and a selection from the original Hubbard. Fruit gray blue color; grows large; remarkably good keeper, and excellent quality. Running variety. Pkt. 10c; 20c per oz.; ¼ lb. 50c; \$1.50 per lb.



Summer Crookneck Squash.

All Seeds on This Page Postpaid

M.-S. "SURE CROPPING" TOMATOES

(German—Liebesapfel. French—Tomate)

One ounce for 1,500 plants; quarter pound (to transplant) an acre.

EARLY VARIETIES

Disinfection of the seed by dusting with SEMESAN at the rate of 1 ounce to 15 pounds of seed, or by soaking it for 25 minutes in normal liquid SEMESAN, prevents seed-rotting in soil, increases stand, vigor and yield of plants. Ask for SEMESAN Vegetable Booklet giving complete directions. For price see page 50.

CULTURE—This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hot-bed about the first week in March or latter part of February in drills 5 inches apart, and $\frac{1}{2}$ inch deep. When the plants are about 2 inches high they should be set into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground in hills 3 feet or 4 feet apart each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.



Marglobe Tomato (Pritchard Strain)

Marglobe

(PRITCHARD STRAIN)

Tested repeatedly and approved by the United States Department of Agriculture. Is sure to be planted extensively before long. This is what the Department says about it. "Very productive, second early variety. Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights. Pkt. 10c; $\frac{1}{2}$ oz. 25c; 1 oz. 40c; $\frac{1}{4}$ lb. \$1.25; 1 lb. \$4.00.

A great many of our customers claim the "MARGLOBE" the best tomato they ever planted.

BREAK O'DAY—The latest introduction in red fruited early globe shaped tomatoes. One of its parents is the well-known Marglobe, which it resembles closely in color, shape, size and solidity, but it is 10 to 12 days earlier and ripens along with Bonnie Best and other early varieties. The vines are open and not as heavy as Marglobe. Pkt. 10c; $\frac{1}{2}$ oz. 60c; 1 oz. \$1.00; $\frac{1}{4}$ lb. \$1.75; 1 lb. \$6.00.



Tomato plants, nine weeks old. Planted with same seed. The increased yield for mulched Tomato plants is over 44 per cent.

For **MULCH PAPER** particulars, see page 46.

M.-S. Early Wonder

This is the seventh year that we are offering this wonderful extra early Tomato, after several years of careful selection. The fruits are large for so early a variety, round or slightly flattened, deep scarlet red color, smooth, free from cracks and of fine quality. It produces ripe fruit as early as Earliana and continues to yield marketable fruit a longer period than the other first early varieties. The vines are vigorous and very productive. We consider this a valuable addition to the list of early tomatoes for the market or home garden. Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c; $\frac{1}{4}$ lb. \$1.50; 1 lb. \$5.00.

Chalks Jewel—A tomato of fine quality. Second early, round, smooth red fruit of excellent flavor. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 90c; 1 lb. \$3.00.

Extra Early I. K. L.—Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Price same as above.

Sparks Earliana—Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Price same as above.

Bonnie Best—The finest of the second early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety for early and main crop. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 90c; 1 lb. \$3.00.

John Baer—Is a good, all around second early tomato, the fruit being smooth, ripening clear to the stem and of a good rich red color. Price same as above.

June Pink—For gardeners who have a market for a nearly purplish pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.25; 1 lb. \$4.50.

CHAS. E. BROWN, of Waynesboro, Pa., tells us that our **M.-S. EARLY WONDER** and **MARGLOBE** Tomatoes are absolutely the best he ever had.

The best soil improver you can use is manure. Use plenty of it. We can sell you a whole wagon load in a 100 lb. bag of our High Grade Sheep or Cattle Manure, at a surprisingly low figure.

FOR PARTICULARS, SEE PAGE 54.

MAIN CROP TOMATOES

Marglobe—See page 24.

Norton—A wilt-resistant selection of the Stone type, maturing in about 160 days. This means it is a main-crop variety adapted to sections where the growing season is comparatively long. The fruits are somewhat flattened but of large size, and particularly recommended for the canning trade. Introduced by U. S. Dept. of Agriculture. Pkt. 10c; 1 oz. 40c; $\frac{1}{4}$ lb. \$1.25; 1 lb. \$4.00.

Wisdom—This tomato has become very popular. It is a great yielder of large handsome red fruit, which ripens clean to the stem. It makes very strong vines and should be given plenty of room. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.50; 1 lb. \$5.00.

Kelly's Red—This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequalled firmness, or some other of its good points. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; 1 lb. \$2.50.

Greater Baltimore—General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Price same as above.

B. B. (Brinton's Best)—A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Price same as above.

M.-S. IMPROVED NEW STONE—This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities it is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly reliable main crop tomato. Price same as above.

Matchless—Large, solid, smooth, handsome, deep red color, a heavy cropper and popular with canners. Price same as above.

Red Rock—A tomato for main crop, producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Price same as above.

Ponderosa—Remarkably large and of fine quality. Very solid. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c; $\frac{1}{4}$ lb. \$1.50; 1 lb. \$6.00.

PRESERVING VARIETIES

Golden Queen—Bright-yellow, large and solid. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c; $\frac{1}{4}$ lb. \$1.50.

Yellow Pear Shaped—For preserves. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c; $\frac{1}{4}$ lb. \$1.25.

Yellow Plum Shaped—For preserves. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c; $\frac{1}{4}$ lb. \$1.25.

Red Pear—Pear-shaped red. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c.

Peach—Very small, pink fruit, with slight peach bloom on skin. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c.

Husk or Strawberry—Used for preserves. Pkt. 10c; $\frac{1}{2}$ oz. 30c; 1 oz. 50c.

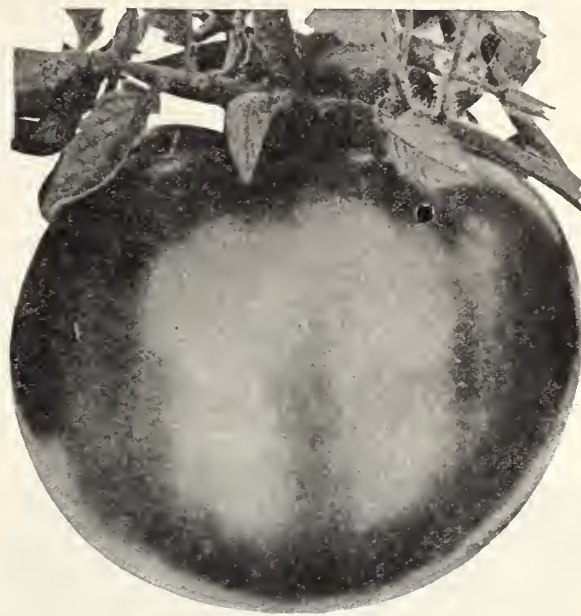
Red Cherry—Small, grows in clusters. Also used for preserving. Price same as above.

TOMATO PLANTS, SEE PAGE 5.

Mr. A. B. COPE, of Belair, Md., tells us that all the Vegetable and Flower Seed he bought of us matured to his entire satisfaction.



Norton Tomatoes.



M.-S. Big Chief.

M.-S. BIG CHIEF—A grand main crop tomato of the very highest quality. It produces an abundance of large handsome red fruit, which ripens clean to the stem and will bear heavily from the early part of July until frost. It is a very shy seeder. The meat is deliciously juicy and free from acid. It is rare to see an ill-shaped fruit on a M.-S. BIG CHIEF VINE. We have tested this valuable variety very carefully and have always been more than satisfied with the results. Order quick, as the seed is scarce, grown exclusively by us. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.50; 1 lb. \$5.00.

Germaco Hotkaps



Protect Plants for Profit

GERMACO HOTKAPS can make you extra dollars this season. They protect plants from frost, wind, rain, insects and ground crusting. Thus they produce hardier, quicker crops. You get higher prices!

Thousands were used in 48 states last year. They cost so little that growers cannot afford to be without them.

Prices: 1,000 lots, \$11.50 (postpaid \$11.75); 5,000 lots, \$11.00; 10,000 lots, \$10.75. 250 trial package, including garden type water proof setter, \$4.00 (postpaid \$4.15); Germaco steel **HOTKAP** Setter, \$2.50 (postpaid \$2.60).

If you need **HOTKAPS** for your backyard garden, note these prices: 100 with garden setter, \$2.50 (postpaid \$2.65); Garden Setter alone, 50c (postpaid 60c).

I have found your Roland Park Grass Seed to be very good.—Mrs. Wm. Beury, 120 Taplow Road, Homeland.

Turnip

(German—Rube. French—Navet)

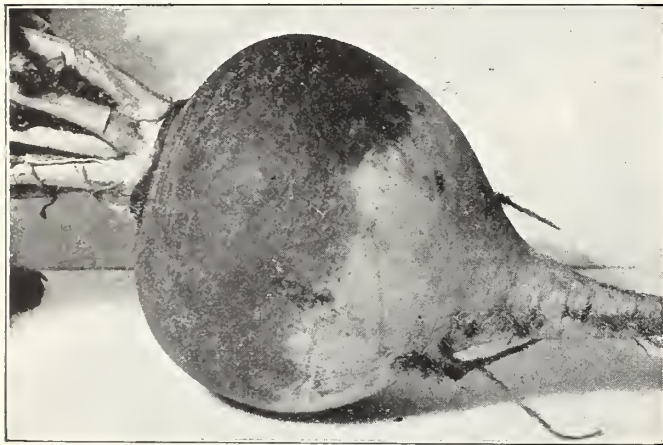
WE PAY POSTAGE ON PKTS., OZS., $\frac{1}{4}$ LBS. and 1 LBS.
One packet for 100 feet; two pounds to the acre.

CULTURE—For early use sow as soon as the ground opens in Spring in drills from 12 to 15 inches apart; thin out to 6 or 9 inches in the rows. For a succession, continue to sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to carry off the water. Put away in this manner they will be found in good condition in the Spring.

M.-S. EARLY CHAMPION TURNIP—This is the best Turnip for home gardens and market gardeners to plant. It is large, perfect globe shape, white as snow with a beautiful distinct red shoulder (tops are not over large), stays tender and sweet a long time. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.

Red, or Purple Top White Globe—A variety of decided merit, and the most popular in our markets. Globular shape, very handsome, and of superior quality. Is a heavy producer, early, and of rapid growth, and an excellent keeper. Besides being a first-class table turnip, it is also very good for stock. Pkt. 10c; 1 oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 50c; 5 lbs. \$2.00.

Extra Early Purple Top Flat Strap Leaved—Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 60c.



M.-S. Early Champion.

Improved Purple Top Ruta Baga, or Swede—The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. Pkt. 10c; 1 oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 60c.

Purple Top Yellow Aberdeen—Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardness and firmness of texture. This is an old esteemed variety for stock. Pkt. 10c; 1 oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 60c.

White Egg—A quick-growing, egg-shaped variety. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.

Yellow, or Amber Globe—Excellent for table use or stock. Fine quality, keeps well. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 60c.

Cow Horn—A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring in connection with rape. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 60c.

Seven Top—Grown exclusively for its tops, and when properly prepared and cooked, makes a fine dish. Withstands our winter without any protection. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 20c; 1 lb. 50c.

Tennoji Turnip—A Japanese variety of exceptional merit. Flat, snow white and of immense size, but very fine flavor. Seed very scarce. Pkt. 10c; oz. 25c.



Improved Purple Top Ruta Baga.

Spinach

(German—Spinat. French—Epinard)

One packet will sow 50 feet of drill; 15 to 20 lbs. to an acre.

Prices on larger quantities furnished on application.

CULTURE—Sow in early Spring, in drills a foot apart, every two weeks for a succession, and as it grows, thin out for use. For Fall use, sow in August, and for Winter crop in September. Cover that which is left over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills two feet apart each way, three or four seeds in a hill.

M.-S. Re-Selected Bloomsdale Savoy Leaved—The popular Fall Spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. Pkt. 10c; $\frac{1}{4}$ lb. 15c; 1 lb. 35c; 5 lbs. \$1.00; 100 lbs. \$11.00.

New Long Standing Bloomsdale—Has all the good points of the above, in addition, it will withstand the summer heat and goes to seed very slow. Pkt. 10c; $\frac{1}{4}$ lb. 15c; 1 lb. 35c; 5 lbs. \$1.25; 100 lbs. \$14.00.

Virginia Blight Resisting Bloomsdale Savoy—This strain is not as heavily crumpled and of lighter color than the Re-Selected Savoy. However in places where plants grown from Re-Selected Savoy Seed show blight, this strain has proven to give excellent results, being absolutely free from blight. Price same as above.

Juliana—Very long standing, heat resisting, handsome dark-green. Very thick and curled leaves. Absolutely without male plants which is the cause of the long-standing quality. Pkt. 10c; $\frac{1}{4}$ lb. 15c; 1 lb. 40c; 5 lbs. \$1.50; 100 lbs. \$16.00.

New Zealand—Of delightful flavor and practically everbearing. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.



M.-S. Re-Selected Bloomsdale Savoy Leaved Spinach.

Mr. C. S. Holzapfel of Hagerstown, Md., states that our **M.-S. RE-SELECTED SAVOY SPINACH** is the best he has ever had and wishes to compliment us on same.

Tobacco Seed

CULTURE—A very clean piece of land is best for the tobacco plant beds, hence it is customary to burn a piece of land in the woods for plant beds. This destroys grass, weeds and insects, adds fertility through the action of the wood ashes, and leaves the ground in good order. The seeds are sown about February and protected by plant bed cloth to keep off tobacco flies. When large enough and weather is settled (about June) set the plants out in highly manured or fertilized soil in $3\frac{1}{2}$ -foot rows, 3 feet between the plants. Constant care must be given, cultivating, suckering, worming, etc. Methods of curing differ according to the variety and color, whether to be sun or flue-cured, etc.

Connecticut Seed Leaf—A very popular variety.

Improved White Burley—A heavy yielder of rich, bright leaf, large, long and broad. Should be grown only on limestone soil.

Choice Havana—An Americanized Havana, used for cigar purposes, although sometimes used as a manufacturing sort. Has a very large, long, fine quality leaf; very early, making two crops a season in some sections. Best adapted to chocolate or rich gray soils.

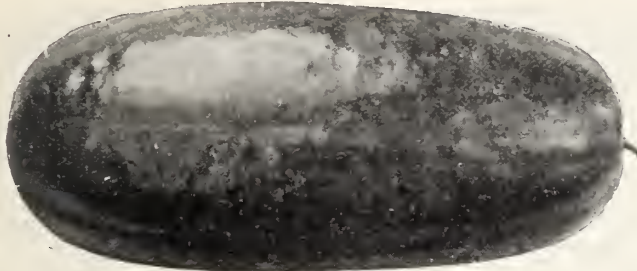
Above varieties—Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00; 1 lb. \$3.50.

We Pay Postage on Pkts., Ozs., ¼ Lbs. and 1 Lbs.

(German—Wasser Melone.
French—Melon d'eau)

WATERMELON

One ounce for thirty hills; four to five pounds for an acre.



White-Seeded Excel.

THE MYSTERY OF THE WATERMELON

When a good ripe juicy Watermelon is sliced, you no doubt have been struck with its beauty, and after feasting on the flesh took some of the seed and dried it, but doubt if you ever made a calculation of the number of seed required to weigh a pound, and here is where some of the mystery of the Watermelon comes in.

Requires 4,000 seeds to weigh a pound, then apply mathematics to a 30-pound melon. One of these seeds put into the ground, when warmed by the sun and moistened by the rain, takes off its coat and goes to work, it gathers from somewhere more than 100,000 times its own weight and, forcing this raw material through a tiny stem, constructs a Watermelon. It ornaments the outside with green, inside the green it puts a layer of white, and within the white a coat of red, and all through the red it scatters seeds, each one capable of continuing the work of reproduction.

What architect drew the plan? Where does the little seed get its tremendous strength? How does it collect the flavoring extract? How does it build a Watermelon? Until you can explain a Watermelon, do not be too sure that you can limit the ability of the Almighty. Everything that lives, in like manner mocks by its mystery, beauty and power.

CULTURE—Watermelons should be planted in hills 8 to 10 feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.

WHITE-SEEDED EXCEL—Excel produces melons 18 to 22 inches long by 12 to 16 inches in diameter, and weighing from 40 to 60 pounds; the dark green rind, indistinctly striped with a shade lighter green, is tough and easily withstands far distant shipment. The deep red flesh is crisp, melting and of finest flavor, entirely free from core or hard centers. Heart large and very firm with unusually small seed cavity. Seeds white, with black tips; time for ripening 95 days. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.

M.S. SWEET HEART WATERMELON—The sweetest melon that grows. The best for home use and nearby markets. The dark red meat which extends almost to the rind, is of the most delicious flavor. Vines are strong and vigorous, the melons are medium to large in size. The skin is a very rich, dark green color. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.

GOLDEN HEART WATERMELON—A decided novelty in Watermelons. Vigorous vines producing an abundance of light green melons, which have delicious yellow meat almost to the rind. Pkt. 10c; oz. 15c; ¼ lb. 50c.

TOM WATSON—Our strain of this wonderful shipping melon has been very much improved in the last few years. By careful selection our strain will produce melons which are red from the rind to the center, not showing any white streaks. The rind is very tough, making it an excellent melon for shipping long distances. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.

McIver's Wonderful Sugar—Resembles Old Rattlesnake, superior in quality. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.

Florida Favorite—Large, long, striped, excellent for family garden. Rind thin, but firm; flesh very deep red and very sweet. Splendid shipper. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.

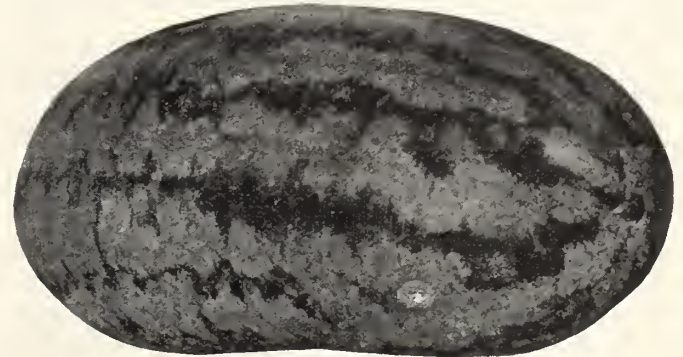
Gray Monarch, or Long White Icing—Very large, long, crimson flesh. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.

IRISH GREY—The rind is exceptionally hard and firm. The flesh is bright red, sweet, firm but free from any hard centers or stringiness. A very desirable variety for those who prefer a long, light colored shipping melon. Price same as above.

General Pershing—Also a good shipping melon similar to above. Price same as above.

Indian Chief—Excellent shipper. Price same as above.

Improved Georgia Rattlesnake—The old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 85c.



Irish Grey Watermelon.

IMPROVED KLECKLEY SWEET—Some years ago our grower set out to perfect a new type of this favorite melon, for the reason that the original type began to show some deterioration, and the color of the seed was showing decidedly too much brown smear, melons were not all growing uniform in size, and with the feeling that it is a grower's duty to keep the type of all good melons up to standard he carefully selected and bred this type until we now have a much better melon than the old type Kleckley Sweet; this improved type grows uniformly large, retaining all of the fine qualities as a table melon, with an important added feature of having much harder rind, which assures its satisfactory carrying quality, while the old type will not stand even short distance shipping in carloads. The seed are all creamy white, with no trace of brown, somewhat larger than the old type seed, the color of the rind remain the same—dark bluish green—and grows to much larger size than the old type. Fine for the home garden. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

CITRON—Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.



Improved Kleckley Sweet.

Tom Watson.

A Garden planted with

**GATOR HIDE
MULCH**

means less labor and
finer vegetables.

For full particulars,
see page 46



M.-S. RELIABLE GRASS, FORAGE AND FARM SEEDS

If Grasses Are Wanted by Parcel Post, Allow for Postage. Prices on Grasses Subject to Market Changes. Write for Samples and Prices in Larger Quantities.

M.-S. Permanent Pasture Mixture, either for Low or Up Lands. It is made up of grasses best calculated to afford an abundant and nutritious food supply for stock. The formulas are based upon successful experience. For all ordinary permanent pasturage, they will be found entirely satisfactory. When ordering state if for a low or up land, price of either: **Lb. 35c; 10 lbs. or over at 30c; \$8.40 per bushel of 30 lbs.**



M.-S. Permanent Pasture Mixture makes a nutritious food for cattle.

Blue Grass, Fancy Kentucky—(*Poa Pratensis*)—Our stock of this is extra fine, thoroughly re-cleaned; sow 3 to 5 bushels per acre on lawn, 2½ to 3 bushels on pasture fields (bushel 14 lbs.). **Per lb. 30c.** Larger quantity on application.

Bermuda Grass—Adapted for seashores; very hardy. **Lb. 75c.**

Timothy (Phleum Pratense)—Sow one-half bushel per acre alone; with clover, 1 peck (45 lbs. per bu.). **15c per lb.** Price varies constantly; ask for quotations in larger quantities.

Crested Dogtail (Cynosurus Cristatus). Excellent as a pasture and lawn grass. Sow 3½ to 4 bu. per acre (21 lbs. per bu.). **Price, lb. 50c.**

English, or Perennial Rye Grass (Lolium Perenne). This makes the quickest returns in growth of any grass; is deep rooted and is readily established. Sow 2½ bushels per acre (20 lbs. per bu.). **20c per lb.**

Hard Fescue (Festuca Duriuscula)—A splendid grass for golf links, tennis courts, etc.; will resist droughts. Sow 3 bu. per acre (12 lbs. per bu.). **Price, lb. 50c.**

Herd, or Red Top Fancy Re-cleaned—(*Agrostis Vulgaris*). This is one of the best grasses for sowing for immediate effect. Our stock is free from chaff and is absolutely pure. Sow 40 lbs. per acre (32 lbs. per bu.). **Price, lb. 25c.**

Meadow Fescue (Festuca Pratensis)—Sow 40 to 50 lbs. per acre (22 lbs. per bu.). **Price, lb. 30c.**

Italian Rye (Lolium Italicum)—Very desirable for pasture; being an annual, it comes to maturity the first season; the ideal lawn seed for Southern lawns in winter. Sow 50 lbs. per acre (18 lbs. per bu.). **25c per lb.**

Orchard Grass—(*Dactylis Glomerata*)—For early pasturing this is very desirable; also fine for sowing in shaded places. Sow 40 lbs. per acre (14 lbs. to bu.). **Price, 25c per lb.**

Red, or Creeping Fescue (Festuca Rubra)—Very valuable for sowing on sandy soil and in shaded places and putting greens, tennis courts, etc. **Price, 50c lb.**

Broom Corn (Sorghum vulgare)—Succeeds in a good, deep soil, fresh but not damp, very sensitive to cold. Long-brush Evergreen, which is made into Brooms. (Bu. 50 lbs.). **20c lb.**

Kaffir Corn—Of great drought-resisting quality. Can be sown as late as July; 10 lbs. to the acre in drills (bu. 56 lbs.). **10c lb.**

Cow Peas (Vigna Catjang)—Valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm. Sow 2 bu. per acre broadcast; 1 bu. in drills. We offer Black

Innoculate
All Clovers,
Cow Peas, Vetch
and Soja Beans
with
**STIMULGERM
CULTURE**
For particulars
see page 29.



Soja Beans.

Whippoorwill. Gray, New Era, Black Eye and other leading varieties, also mixed. **10c per lb. Quantity price on application.**

Soja Bean (Glycine hispida)—Mammoth Yellow, Brown and Black, Pekin, Sable and Wilson Blacks—All thrive well in our climate. Valuable for the South. Does not make

good hay, but is good for ensilage or green fodder. Sow 1½ bus. per acre alone, or ½ bu. soja beans with 1 bu. cow peas. Yields as high as 20 tons of green feed per acre. **10c per lb. Quantity price on application.**

Sudan Grass—A tall annual grass, growing 6 to 8 feet high when drilled, but when sown broadcast thickly does not grow quite so tall. Every farmer and stock raiser should learn about this wonderful grass, as it is eaten by all kinds of stock, and will produce more hay to the acre than any grass that has ever been introduced. Allows 3 to 4 cuttings, and produces 2 to 6 tons per acre, depending upon the soil. Can either be drilled at the rate of 2 to 3 pounds per acre in 3-foot rows or broadcast at the rate of 10 to 20 pounds per acre. Plant from March to August. **15c per lb. Larger quantities, price on application.**

Peas (Canadian Field)—Valuable for cattle feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the spring and harrowed in. If sown with oats, about 1½ bus. to acre; in drills, 2 bus. to acre (bu. 60 lbs.). **Lb. 10c.**

Golden Millet (Panicum Millaceum var)—An improved variety, medium early, growing 3 to 5 feet high. Heads are closely condensed, though the spikes are very numerous. Sow 40 to 50 lbs. broadcast to the acre (bu. 50 lbs.). **10c per lb.**

Japanese Buckwheat—In the locality of Baltimore this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcasted to the acre. **15c per qt.; pk. 75c.**

Sorghum, or Sugar Cane

Ideal cattle food. Sow 1 or 2 bu. broadcast; 25 lbs. to the acre in drills. (Bu. 50 lbs.)

Early Amber—Grows 10 to 13 feet high. Fine for cows, either green or cured. **Lb. 10c.**

Early Orange—Ripens about 10 days after Early Amber, and is said to produce a larger crop. **Lb. 10c.**

Sunflower—Large Russian—**Lb. 15c.**



Sorghum.

Vetch, Spring and Winter

Sand, Winter, or Hairy Vetch (Vicia villosa)—Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye, for a support. Grows three to four feet high and can be cut as soon as the bloom appears, and again for the seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. **Lb. 15c.**

Spring Vetch—Same as above, but not hardy; sow in Spring only. **Lb. 10c.**

Gentlemen—The various Flower Seed which I purchased last May have all proved most satisfactory, especially the Sweet Peas with which I am very well pleased.—MRS. T. R. GREEN, R.F.D. No. 3, Oxford, Pa.

SEED INOCULATION

*The Best Inoculation
for All Legume Seeds*

STIMUGERM

LEGUME INOCULATION

*Means Better Crops
Better Soils
Less Fertilizer Expense*

FOR ALFALFA, CLOVER, BEANS, PEAS, VETCH, ETC.

STIMUGERM is a culture of bacteria especially selected and bred for maximum vitality and ability to form nodules and take nitrogen from the air. STIMUGERM contains many millions of active, hardy legume bacteria, guaranteed to work. You can obtain STIMUGERM in either **JELLY** or **HUMUS** form.

Seeds of all legumes—clover, alfalfa, sweet clovers, soy beans, vetches, etc.—will yield far better returns if inoculated before planting, and in addition leave in the soil heavy deposits of valuable nitrogen which benefits all succeeding crops. It is crop insurance at very low cost, and the results will repay the small effort involved beyond your expectations.

These scientifically bred cultures are far superior to the natural germs in the soil and therefore inoculation is preferable to uncertain and laborious soil transfer.

PRICES ON CULTURES FOR ALFALFA AND CLOVERS—POSTPAID

1/4-bus. size	\$0.35	1-bus. size	\$1.00
1/2-bus. size .....	.60	2 1/2-bus. size	2.25

**Prices on Culture for Large-Size Seeds, Such as Soy Beans,
Vetch, Cowpeas, Peas and Beans.**

1/2-bus. size	\$0.35	1-bus. size	\$0.60
2-bus. size	\$1.10	5-bus. size	\$2.25

Special Garden Size for Garden Peas, Beans, and Sweet Peas, 25c.



**Ventilated can
opens easily with-
out cutting**

Be sure to specify quantity and variety of seeds you wish to inoculate; also state whether Stimugerm Jelly or Humus is preferred.

Clover Seeds

Write for Samples and Prices in Larger Quantities.
Prices Subject to Market Fluctuation.

Alfalfa, or Lucerne (*Medicago sativa*)—Requires deep, rich, well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about the same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height, one to three feet. We handle home as well as foreign grown alfalfa, 25c per lb. Grimm Alfalfa, certified, 35c per lb. Large quantity price on application.

Alsike, or Hybrid Clover (*Trifolium hybridum*)—A perennial, one to three feet high; grows well in our locality and can withstand severe cold. A good honey plant for bees. Fifteen lbs. to the acre. **Lb. 25c.**

Red Clover (*Trifolium pratense*)—One of the most valuable farm crops for pasture, hay, or for turning under for green manure. It requires a deep, rich soil and yields two hay crops in the season. Sow at the rate of 15 pounds to the acre, **Lb. 25c.**

Mammoth Red, or Sapling Clover—Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. **Lb. 25c.**

Crimson, or German Clover (*Trifolium incarnatum*)—Erect annual, one to two feet high, with bright-scarlet flowers. It is largely grown for improving the soil by turning under. It is a valuable crop for pasturage or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. **Lb. 12c.**

White or Dutch Clover—Listed on inside front cover page.

White Sweet Clover (*Melilotus Alba* or *Bokhara*)—Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil; may be cut three times; lasts for years if cut before flowering. **Lb. 12c.**



Samples and Bushel Prices on Grain, Clover and Grass Seeds on Request

Oats

Appler, Virginia Gray and other best varieties for Fall and Spring sowing. 32 lbs. per bu. Sow 64 to 90 lbs. per acre. **Lb. 10c.**

Seed Rye

The most popular Fall seeded forage and fertilizing crop grown. Furnishes excellent green food for poultry, hogs and live stock of all kinds. Keeps stock healthy and saves expensive commercial dry feeds. Hogs on rye pasture will make the same gains with half the amount of grain feed. Sow 1 to 1 1/2 bus. per acre broadcast.

Rosen and other varieties. Sow 1 1/2 bus. to the acre from July to November. 56 lbs. per bu. Sow 85 to 100 lbs. to acre. **Lb. 10c.**



CERESAN
A Single Disinfectant
ant, to Treat Your
Wheat, Oats, Bar-
ley and Other Cereals
against Smut.
See page 50.

Seed Wheat

Bearded and Beardless varieties. 60 lbs. per bu. Sow 90 to 100 lbs. to acre. **Lb. 10c.**

Rape

DWARF ESSEX ENGLISH (*Brassica napus*)—Is excellent for sheep and hog pasture, and chicken yards, also for soiling. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five lbs. to the acre; sown broadcast, ten pounds to the acre. **Lb. 10c;** 10 lbs. 60c; 100 lbs. \$5.00.

Winter Barley

48 lbs. per bu. 96 to 110 lbs. per acre. One of the most productive Fall seeded grain crops grown. Being planted more extensively each year. Provides an abundance of highly nutritious forage, hogs, sheep, cattle, etc., being especially fond of it. Grown in this section largely for grain. Yields 25 to 50 bushels per acre. Invariably brings good market price. Sow 1 to 1 1/2 bushels per acre broadcast. **Lb. 10c.**



GARDEN BOOKS

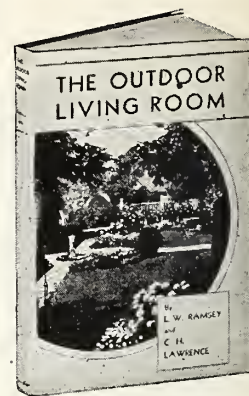
Written especially for amateurs. Profusely illustrated, well-printed on good paper and handsomely bound in durable covers.

THE OUTDOOR LIVING ROOM, by L. W. Ramsey and C. H. Lawrence.

All at once, or little by little as your time and purse allow, this book will help you make a beautiful outdoor living room, either around a new home or one already planted. Helpful illustrations and clear text take you through every operation from start to finish. The principles set forth apply in every climate and may be carried out in a wide variety of plant materials. 139 pages, 98 illus., \$2.50. Postpaid, \$2.65.

Garden Guide

Each subject written by an authority—thus giving the advantage of numerous experts rather than of one author. A veritable encyclopedia of gardening for the average-sized home. Covers flowers, fruits, vegetables, lawns, trees, shrubs, roses and other favorites, perennials, annuals, bulbs, ferns, water plants, rock gardens, house plants, fertilizers, pruning, propagation, transplanting, diseases, insects, etc. 388 pages, 275 illustrations. Paper, \$1.00; postpaid, \$1.10. Cloth, \$1.50; postpaid, \$1.65.



The Book of Annuals

By Alfred C. Hottes.

Over 100 species described with full directions for their care, culture and use. Lists of different Annuals for different purposes and a condensed tabular cultural list. 182 pages, 155 illustrations. Cloth, \$1.50; postpaid, \$1.65.

City and Suburban Gardening

By Chesla C. Sherlock

Written especially for the owner of a city lot or a suburban home who is desirous of making his home a place of beauty. Does not treat fruits and vegetables but gives complete information on flowers, plants, trees and shrubs with planting plans. 196 pages, 82 illustrations. Cloth, \$2.00; Postpaid, \$2.15.

A Little Book of Climbing Plants

By Alfred C. Hottes.

A most complete book covering Climbing Plants of whatever nature and including ground covers and creepers. Also has a chapter on trellises, pergolas, fences and woodwork. 250 pages, 106 illustrations. Cloth, \$1.75; Postpaid \$1.90.

Modern Dahlia Culture

By W. H. Waite

The originator of "Jersey's Beauty" and other highly popular Dahlias. Gives soil, fertilizers, propagation, culture, pruning, insect pests and diseases, winter storage and classifications. 132 pages, 24 illustrations and 6 color plates. Cloth, \$1.50; postpaid, \$1.65.

Adventures in Dish Gardening

By Patten Beard

The Japanese Art of Hachi-niwa or dish-picture interpreted for our western use. Shows how to make lovely bits of miniature landscapes with growing plants. Full instructions on the making of figures, bridges and other artificial materials used. 220 pages, 65 full-page halftones and 4 color plates. Leatherette, \$2.50; Postpaid, \$2.65.

1,001 Garden Questions Answered

By Alfred C. Hottes.

Written in the form of questions and answers this book is a wonderfully quick method of answering all questions pertaining to a moderate-sized place. Information on all phases of gardening—flowers, fruits, vegetables, lawns, trees, bulbs, propagation, soils, pruning, storage, etc. 320 pages, 81 illustrations. Paper, \$1.50; postpaid, \$1.65. Cloth, \$2.00; Postpaid, \$2.15.

Milady's House Plants

By F. E. Palmer.

Tells how to care for and raise all house plants that succeed in the home. Full cultural information with treatment, propagation, insects and diseases. 176 pages, 96 illustrations. Paper, \$1.00; Postpaid, \$1.10. Cloth, \$1.25; Postpaid, \$1.35.

All About Flowering Bulbs

By T. A. Weston.

Practical and authoritative information on the culture and flowering of all the common and some uncommon Bulbs used outdoors and indoors. 186 pages, 8 full-page color plates and 65 full-page halftones. Cloth, \$2.00; Postpaid, \$2.15.

Our Native Cacti

By Ethel Bailey Higgins.

Gives characteristics, descriptions of plants, fruits and flowers, their uses, habitat of the plants, flowering periods, diseases to which they are subject, cultural directions. Linen cloth, 182 pages, 4 full-page color plates and 56 halftones. \$2.50; Postpaid, \$2.65.

Flowers of the Wild

By Frank C. Pellett.

A decidedly different wild flower book in that it covers most of the common wild flowers suited for naturalization or cultivation in the Northeastern States and the best of them from the west. 168 pages, 104 black and white halftones and 4 full-page color plates. Cloth, \$2.00; Postpaid, \$2.15.

Landscaping the Small Home

By Edward W. Oliver.

Written especially for the owner of a small home and giving him full information as to beautifying his own place—both garden and land. 160 pages, 90 illustrations. Cloth, \$2.00 (postpaid \$2.15).

Rose Garden Primer

By Eber Holmes.

Gives all necessary information for the successful growing of roses at home, origin, history, soils, cultivation, insects and diseases, propagation, classification, protection, under glass, different species for different climates, etc. 224 pages, 33 sketches. Cloth, \$1.75; Postpaid, \$1.90.

Practical Landscape Gardening

By Robert A. Cridland.

The outstanding features of this book are its numerous planting plans and keys thereto, with the many halftone illustrations and sketches. 280 pages, 260 illustrations, planting plans and sketches. \$2.50; Postpaid, \$2.65.

Rock Garden Primer

By Archie Thornton.

Covers conditions for the temperate region of America and written with particular regard for the benefit of those who wish information connected with the making of a rock garden. 152 pages, 70 illustrations and four color plates. Leatherette, \$2.00; Postpaid, \$2.15.

The Book of Perennials

By Alfred C. Hottes.

Tells how to successfully grow and enjoy over 125 species of our most popular and durable of border plants. Lists of different perennials for different purposes and a condensed tabular list of over 500 species. Gives general principles of growing, using, selecting, propagating and insect and disease troubles and remedies. 200 pages, 93 illustrations. Cloth, \$1.50; Postpaid, \$1.65.

The Book of Shrubs

By Alfred C. Hottes.

A complete, non-technical description of the common shrubs, showing how one differs from the other. Discusses under each species its characters, uses, soil, pruning and propagation. A table of varieties gives the height in feet, exposure to plant, soil, color of flowers, season of bloom, color of fruit and notes on each species. 446 pages, 187 illustrations. Cloth, \$3.00; Postpaid, \$3.15.

Practical Vegetable Culture

By A. E. Wilkinson.

The growing of vegetables for home consumption and on the farm for profit. 308 pages, 177 illustrations. Cloth, \$2.00; Postpaid, \$2.15.

Water Gardens and Goldfish

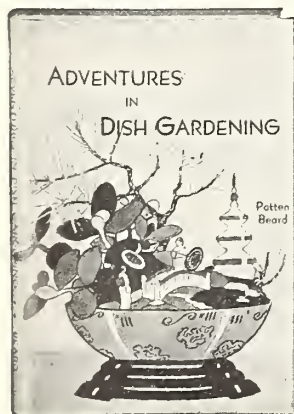
By Robert V. Sawyer and E. H. Perkins.

Two closely related subjects under one cover. Small to medium-sized pools and care of goldfish. 112 pages, 59 illustrations. Cloth, \$1.50; Postpaid, \$1.65.

Woman's Flower Garden

By Jane Leslie Kift.

Especially written for women who prefer only a small or medium-sized outdoor garden and a few of the best house plants in the home. Gives the care of flowers and plants in the home and their cultivation in the garden. 160 pages, 15 illustrations. Cloth, \$1.25; Postpaid, \$1.35.



M.-S. Reliable Flower Seeds

Sow the Seeds either broadcast or in rows, and cover lightly—a good general rule is to cover several times the size of the seeds and press the soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil. To have the earliest blooms, flowers that stand transplanting should be sown early in boxes indoors. Water with a fine spray, do not let the soil dry out, do not keep the plants saturated, as they may damp off. When three or four leaves have formed transplant one inch apart in boxes, or in the open ground if warm enough.

FLOWERS FOR SPECIAL PURPOSES.

To aid those not familiar with the uses to which flowers may be put, we have classified a few below. Where a variety is suitable for two uses, we have entered it in both lists. Note carefully the heights of the plants so that a proper selection may be made.

FOR BORDERS AND BEDDING.—6 to 12 inches high. Alyssum, Brachycome, Candytuft, Dusty Miller, Centaureas, Daisy, Dianthus, Forget-Me-Not, Lobelia, Mignonette, Pansy, Bedding Petunia, Dwarf Phlox, Iceland Poppy, Pyrethrum, Portulaca, Verbena.

FOR BORDERS AND BEDDING.—1 to 2 feet high. Ageratum, Amaranthus, Antirrhinum or Snapdragon, Aquilegia or Columbine, Asters, Balsam, Begonia, Calendula, Calliopsis, Candytuft, Carnation, Clarkia, Chrysanthemum, Coleus, Centaurea, Cockscomb, Shasta Daisy, Dianthus or Pinks, Escholtzia, Gaillardia, Godetia, Heliotrope, Annual Larkspur, Marigold, Marvel of Peru, Mignonette, Dwarf Nasturtium, Petunia, Phlox, Poppy, Salpiglossis, Salvia, Scabiosa, Stokesia, Stocks, Sweet William, Vinca Wallflower, and Zinnia.

PLANT IN BOXES AND TRANSPLANT.
Ageratum, Aster, Calendula, Canterbury

Bells, Calliopsis, Chrysanthemum, Cockscomb, Cosmos, Godetia, Lobelia, Marigold, Marvel of Peru, Petunia, Pyrethrum, Ricinus, Salpiglossis, Salvia, Sensitive Plant, Stocks, Sweet William and Verbena. These may also be planted where they are to grow.

FOR EDGING AND LOW BORDERS.—Alyssum, Brachycome, Candytuft, Dusty Miller Centaureas, Daisy, Forget-Me-Not, Ice Plant, Lobelia, Portulaca, and Stocks.

FOR CUT FLOWERS.—Antirrhinum or Snapdragon, Alyssum, Aquilegia or Columbine, Aster, Calendula, Calliopsis, Candytuft, Carnation, Flowering Centaureas, Chrysanthemum, Cosmos, Dahlia, Shasta Daisy, Dianthus or Pinks, Escholtzia, Gaillardia, Gypsophila, Heliotrope, Marigold, Mignonette, Nasturtium, Rudbeckia, Salpiglossis, Scabiosa, Stokesia, Stocks, Miniature Sunflower, Sweet Sultan, Sweet William, Sweet Peas, and Zinnia.

The Soil best suited to flowers is a light rich loam, made as fine and smooth as possible. If heavy, mix with sand to lighten and make it friable. Many seeds are very small and require a fine seed-bed.

HALF HARDY and TENDER FLOWERS should not be sown or transplanted outside until the weather is settled and warm.

HARD SHELLED SEEDS like Canna, Moon Vines, Morning Glories should have a hole filed through the outer shell, or soaked in warm water 24 hours before planting.

FOR TALL BEDS, GROUPS AND BACK-GROUNDS.—Amaranthus, Calliopsis, Canna, Canterbury Bells, Tall and Plumed Cockscomb, Cosmos, Dahlia, Digitalis, Hollyhock, Kochia or Burning Bush, Perennial Larkspur, African Marigold, Nicotiana, Oriental Poppy, Evening Primrose, Ricinus, Salvia, Salpiglossis, Scabiosa, Stokesia, Sunflower, Woolflower, and Zinnia.

FOR POTS, PORCH BOXES AND BASKETS.—Ageratum, Alyssum, Begonia, Dusty Miller Centaureas, Ice Plant, Lobelia, French Marigold, Tall and Dwarf Nasturtium, Nepeta, Oneothena, Petunia, Smilax, Stocks, Thunbergia, Vinca, and Verbena.

FOR MOUNDS AND ROCKERIES.—Alyssum, Candytuft, Coleus, Dianthus, Gypsophila, Helianthemum, Heliotrope, Heuchera, Ice Plant, Lobelia, Mimulus, Pansy, Phlox, Portulaca, Saponaria, Smilax, Thunbergia, Verbena, and Viola.

All Following are Annuals

1. AGERATUM, Faraone 1932 Novelty

This new variety surpasses all other Ageratums. The flowers are of a beautiful blue which after a few days of flowering changes to a rosy color making a marvelous effect. Pkt. 25c.

1-1. Ageratum (Floss Flower)—An excellent plant for edging or solid effects. A continuous bloomer. Imperial Dwarf Blue, Imperial Dwarf White or mixed. Pkt. 10c; oz. 75c.

2. Alyssum (Carpet of Snow)—One of the most popular garden flowers, in bloom all season. Used for edging or in rockeries or vases. Pkt. 10c; oz. 75c.

3. Alyssum (Lilac Queen)—A very pretty deep lavender-lilac, of dwarf compact habit. 6 inches. Pkt. 10c.

Amaranthus—Brilliant foliaged annuals, growing from 3 to 5 feet high. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

4. Combustion, Molten Fire (erroneously called Summer Poinsetta)—The most brilliant of this brilliant family. The foliage is bronzy-crimson, each branch terminating with a tuft of bright scarlet-carmine leaves. Grows from 4 to 5 feet, according to the amount of moisture it obtains. It makes a very showy plant during the entire summer months, culminating with the top turning red which resembles a Poinsetta. Pkt. 15c, 2 for 25c.

4-1. Tricolor Splendens (Joseph's Coat)—An improvement on the old sort of more brilliant coloring. Pkt. 10c.

4-2. Caudatus (Love-Lies-Bleeding)—Has drooping crimson flower spikes. Pkt. 10c.

5. Arctotis (African Daisy) Grandis—Bushy annual plants, producing the entire season, on long stems, large daisy-like flowers, pure white on the upper surface, the reverse side of petals lilac-blue; 2 feet. Pkt. 10c.

5-1. Asparagus, Plumosus Nanus—For house or conservatory decoration; extensively used by florists. Pkt. 25c; 100 seeds \$1.00.

5-2. ARCTOTIS, Hybrida 1932 Novelty

This new variety of African Daisy is a most beautiful flower and easily grown. Height 12 inches. The flowers come pink, scarlet, yellow and white, and have a dark disk in the centre. The foliage is crested and fringed with the top of the leaves being green and the underneath silver. A truly wonderful cut flower. Pkt. 25c.



Arctotis Hybrida.

10 cts. per Packet, Unless
Otherwise Noted.

M.-S. SUPERB ASTERS—To our minds there is no other flower which combines so much beauty with grace and usefulness. In bloom from July till frost. To have early flowers sow indoors from March till May, otherwise sow outdoors. Asters require well-pulverized soil.

6. **AMERICAN BEAUTY ASTER**—The Queen of All Asters. Far superior to Paeony and Branching varieties. In 5 colors: Lavender, Crimson, Dark Blue, Pink, White and all colors mixed. Pkt. 10c; oz. \$2.50.

7. **Aster Ostrich Plumed**—Very beautiful. White, rose, crimson, light blue, dark blue, and choice mixed. Pkt. 10c; oz. \$2.00.

7-1. **Sunshine Asters**—This pretty anemone-flowered variety is of great value either in beds, borders or for cutting; plants grow about 18 inches high, the dainty flowers held erect on good stems. The mixture offered contains a splendid range of delicate colors. Pkt. 10c.

8. **Asters, Semple's Branching**—In five distinct colors: white, pink, crimson, lavender, dark blue, and all colors mixed. Pkt. 10c; oz. \$1.75.

9. **Aster, Queen of the Market**—Very early: White, pink, lavender, scarlet, dark blue and choice mixed. Pkt. 10c; oz. \$1.50.

9-1. **ASTER, Aurora**. This is a new type of Aster, very double, the outer petals are large, open and creamy white. Towards the centre the petals are smaller and intensely quilled and of a beautiful yellow. Height 24 ins. Fine for cutting. Pkt. 10c.

10. **Balloon Vine (Love in a Puff)**—A rapid growing annual climber. Seed pods like miniature balloons. Pkt. 10c.

11. **Balsam (Lady's Slipper)**—An old-fashioned flower. With plenty of room they will develop to immense plants with gorgeous flowers. Colors: White, Rose, Scarlet, and Mixed. Pkt. 10c.

MR. J. H. MILLARD of Buckingham Rd., Baltimore, Md., tells us that our Orange and Buff Double Hollyhock seed has brought out blooms that are the envy of his neighborhood.



Calendula Orange King.

11-1. **Balsam Apple** (*Momordica*)—Handsome climbing annual, bearing ornamental orange colored fruit. **Pkt. 10c.**

12. **Begonia**—Invaluable for bedding and pot culture; about one foot high, beautiful foliage pink, white and crimson mixed. **Pkt. 10c.**

12-1. **Brachycome** (*Swan River Daisy*)—A desirable hardy annual, blooming profusely the greater part of the summer; small blue flowers resembling those of the *Cineraria*; 9 inches. **Pkt. 10c.**

CALENDULA (*Pot Marigold*)—Free flowering showy annuals of easy culture, producing a fine effect in beds or mixed borders; valuable also for pot culture for Winter and Spring blooming; 1 foot.

13. **Ball's Strain**—An extra long stemmed deep golden yellow used for forcing. **Pkt. 40c; 1/4 oz. 75c; 1/2 oz. \$1.25; 1 oz. \$2.00.**

13-1. **Meteor**—Yellow striped orange. **Pkt. 10c; oz. 50c.**

14. **Lemon Queen**—Lemon-yellow. **Pkt. 10c; oz. 50c.**

15. **Orange King**—Rich dark Orange. **Pkt. 10c; oz. 50c.**

16. **Mixed Colors**—**Pkt. 10c; oz. 40c.**

California Poppy—(See *Eschscholtzia*).

17. **Calliopsis**—A very showy annual in bloom from early summer till frost. Red yellow center, Yellow red center, Yellow and all colors mixed. **Each, Pkt. 10c; oz. 50c.**

18. **Candytuft**—Dwarf, profuse flowers, of easy culture; useful for bedding and borders. Lavender, pink, crimson, white and choice mixed. **Pkt. 10c; oz. 40c.**

19. **Canna** (*Indian Shot*)—Although these are generally planted from roots, they may be grown from seeds. **Pkt. 10c; oz. 40c.**

19-1. **Canary Bird Vine**—One of the most charming annual climbers, bearing hundreds of pretty, fringed bright yellow flowers, which resemble a canary bird with expanded wings. **Pkt. 10c; oz. 35c.**

19-2. **Carnation** (*Marguerite*)—These are the most satisfactory of the annual pinks, and will bloom in four months after sowing the seed. The flowers are large, fragrant and are produced continuously. If slightly protected the first winter, they will revive the following spring and bloom during that whole season. **Pkt. 10c; oz. \$1.00.**

20. **Cardinal Climber** (*Ipomea Quamoclit Hybrida*)—One of the finest annual climbers known today. Very graceful and beautiful, growing rapidly, and in a warm, sunny location with good soil, it reaches often a height of 20 feet; it is densely clothed with palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring about 1 1/4 inches across. **Pkt. 10c.**

21. **Centaurea** (*Cyanus*, *Cornflower*)—Also known as *Blue Bottle*, *Ragged Robin*, *Bachelor's Button*. An old favorite garden annual. Double blue, pink, white and mixed. **Each, Pkt. 10c; oz. 40c.**

22. **Centaurea Imperialis**, or **Sweet Sultan**—Gigantic, beautiful, sweet-scented flowers borne on long stems. Mixed. **Pkt. 10c; oz. \$1.00.**

22-1. **Cleome Gigantea** (*Giant Spider Flower*)—The plants attain a height of 3 1/2 feet, well branched, each branch terminated by a large head of bright rosy-crimson flowers. It makes a striking subject for large beds or for interspersing in the shrubbery border, and is used extensively in many of the public parks. Seed should be sown in the open ground as soon as the weather is warm and settled, and the plants given sufficient room to develop their full beauty. **Pkt. 10c; 1/4 oz. 25c.**

23. **Centaurea**, **White Leaved** (*Dusty Miller*)—Grown for their silver foliage; fine for edging and hanging baskets. **Pkt. 10c; 1/4 oz. 30c.**

23-1. **Cerastium** (*Snow in Summer*)—Dwarf, white-leaved edging plant; flowers white. **Pkt. 10c; oz. 40c.**

24. **Chrysanthemum** (*Painted Daisies*)—Plants 2 feet high, bearing in profusion large daisy-like flowers on good stems, and quite distinct from the hardy perennial and autumn flowering varieties. Mixed colors. Single or Double. **Each, Pkt. 10c; oz. 50c.**

24-1. **Cineraria**—One of the most ornamental and useful plants for conservatory and house decorations. Mixed **Pkt. 60c and \$1.00.**



California Giant Dahlia—Produced from Seed—See No. 34-1.

24-2. **Clarkia**—One of the prettiest and showiest hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early Spring and grow in partial shade. They bloom through midsummer to late autumn. Average height 1 1/2 ft. **Pkt. 10c.**

Castor Oil Bean—See *Ricinus*.

25. **Celosia Cristata** (*Crested Cockscomb*)—Very desirable annual of easy culture, large comb-like heads, excellent border plants, very good for pots. Mixed. **Pkt. 10c; oz. \$1.00.**

25-1. **Celosia Plumosa** (*Feathered Cockscomb*)—Very decorative plant for the garden. The feather plumes are excellent for cutting. Can also be cut and dried for winter use. Mixed colors. **Pkt. 10c; oz. 60c.**

25-2. **CHINESE WOOLFLOWER** (*Celosia Childsi*)—This is a unique form of the feathered Cockscomb, growing 2 to 3 feet high, each branch terminated with a large head of flowers that look as if made out of some silky wool material. Not only effective in beds or borders, but highly interesting and valuable for cutting, as they can be dried and retain their bright color for weeks. Mixed or scarlet. **Pkt. 10c each.**

26. **Cobea Scandens** (*Cup and Saucer Vine*)—Well-known climber of rapid growth producing large bell-shaped blossoms; in sowing place the seeds edgewise, and merely cover with light soil. **Pkt. 10c.**

27. **Coleus** (*Large Leaved Hybrids*)—Popular bedding plant with beautifully colored foliage; easily grown from seed if kept in warm temperature. **Pkt. 25c.**

Convolvulus—See *Morning Glory*.

27-1. **Cyclamen Seed**—Most beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. Salmon pink, Rose, Bright pink, Finest red, or all colors mixed. **Each, Pkt. 50c; 100 seeds, \$1.50.**

28. **Cosmos**, **Late Variety**—Giant flowering. An autumn flowering plant. A charming profuse bloomer. Crimson, pink, white and all colors mixed. **Each, Pkt. 10c oz. 50c.**

29. **Cosmos Klondyke**—Same as above, but a clear orange yellow. **Pkt. 10c; oz. \$1.**

30. **Early Summer Flowering Cosmos**—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth; 4 feet. Profuse bloomer. Flowers beautiful and large; petals broad; crimson, pink, white and all colors mixed. **Each, Pkt. 10c; oz. 50c.**

31. **Double-Crested Cosmos**—Extra early flowering. This is an entirely new class of cosmos, producing double-crested flowers of exceptional beauty. The grower does not claim that all plants have double flowers, but the fields show about 50 per cent; but the ones that do not show double are dreams of beauty. Pink, white, crimson and mixed. **Each, Pkt. 10c.**

32. **Cynoglossum** (*Chinese Forget-Me-Not*)—An annual recently introduced from China; of the easiest culture, forming strong plants 18 to 24 inches high and producing through the summer months sprays of intense blue Forget-Me-Not-like flowers, delicately sweet scented. A splendid addition to the comparatively short list of real blue flowers. **Pkt. 10c; 1/4 oz. 40c.**

33. **Cypress Vine** (*Ipomae Quamoclit*)—A very graceful annual climber, with feathery foliage and beautiful star-like flowers. Scarlet, white, or mixed. **Each, Pkt. 10c; oz. 50c.**

34. **DAHLIAS**—There is no more fascinating flower to raise from seed than the Dahlia, for the result is a series of surprises. Seed should be started in the house from February till May and the young plant should not be set outdoors until danger from frost is past. Single mixed, Double mixed, Cactus mixed. **Each, Pkt. 10c.**

34-1. **Dahlia California Giants**—A selection from named varieties, grown by a celebrated producer in California. **Pkt. contains 40 seeds, 50c.**



Double Crested Cosmos.



Gypsophila (Baby's Breath).

35. *Dianthus (China Pink)*—Single Crimson, Double White, Double Pink, and Single and Double Mixed. Each, Pkt. 10. Single or Double Mixed, 75c per oz.

36. DIMORPHOTHECA

Aurantiaea (African Orange Daisy)—One of the showiest garden annuals; compact, bushy plants with orange-gold daisy-like blooms on long stems. Pkt. 10c.

Aurantiaea Hybrida. A splendid mixture of colors and shades. Pkt. 10c.

37. *Didiscus (Lace Flower)*—This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time. Pkt. 10c.

38. *Dolichos (Hyacinth Bean, or Texas Climber)*—Showy climber, making rapid growth. White, purple, or mixed. Each, Pkt. 10c; oz. 25c.

39. *Eschscholtzia (California Poppy)*—An elegant hardy annual with fine cut foliage and large poppy-like flowers; blooms from June till frost; fine for borders or large beds. Choice Mixed. Pkt. 10c; oz. 30c.

40. *Euphorbia*—Plants with ornamental foliage, very showy and easily raised from seed. Known as "Snow on the Mountain." Pkt. 10c; oz. 60c.

40-1. *Feverfew*. Hardy annual; for bedding or pot culture; white flowers. Pkt. 10c; oz. 75c.

Four o'Clock—See *Marvel of Peru*.

Foxglove—See *Digitalis*.

41. *Gaillardia (Blanket Flower)*—One of the best garden flowers, excellent for cutting. The large highly-colored, daisy-like flowers appear continually during the season. Pkt. 10c; oz. 60c.



Didiscus (Blue Lace Flower).

42. *Godetia (Satin Flower)*—Beautiful and easily grown, producing a profusion of flowers, satiny texture. Pkt. 10c.

42-1. *Geranium. Zonale* mixed, largest and finest varieties. Pkt. 10c.

43. *Gourds*—Dishcloth or Luffa. Nest Egg, Hercules' Club, Pear Shape, Mock Orange, Sugar Trough, Calabash, or Pipe Gourd, Thermos Bottle, Chinese Lantern, Dipper, and Apple, also a general mixture; rapid climbers. Each, Pkt. 10c; oz. 40c. State kind wanted.

44. *Gypsophila (Baby's Breath)*—Pretty, free-flowering plants of easy culture; excellent for cutting to mix with other flowers. White and carmine. 2 feet. Pkt. 10c; oz. 50c.

Helianthus—See *Sunflower*.

45. *Heliotrope*—A well known and highly prized plant on account of the delightful fragrance of the flower. Excellent for pots or beds. Pkt. 10c and 25c.

46. *Helichrysum (Strawflower)*—One of the best and most popular of the everlasting flowers. Valuable for cutting or decoration, either when fresh or dried.

Mixed Colors—Pkt. 10c; oz. 50c.

47. *Humulus (Japanese Hop)*—A rapid growing annual climber with luxuriant foliage; excellent for covering trellises and verandas. Pkt. 10c; oz. 50c.

48. *Hunnemannia (Giant Yellow Tulip Poppy)*—Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles *Eschscholtzia*; height 2 feet. Pkt. 10c.

49. *Hollyhock, Single*—Annual. Mixed colors. Pkt. 10c.

49-1. *Honesty*—2 ft. Hardy biennial, admired for its silvery seed pods which are used for ornamental purposes. Beautiful and curious mixed colors. Pkt. 10c.

Hyacinth Bean—See *Dolichos*.

Ipomoea—See *Moonflower*.

50. *Ice Plant*—Beautiful dwarf edging plants; flowers profusely in dry and sunny situations. Fine for pots. Covered with watery vesicles resembling pieces of ice. Pkt. 10c.

51. *Jerusalem Cherry Solanum*—Indoor pot culture. Pkt. 25c.

52. *Kochia (Summer Cypress, or Mexican Fire Bush)*—An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at the approach of Autumn the foliage turns to a deep red color; 2 to 3 feet. Pkt. 10c; oz. 40c.

Lace Flower—See *Didiscus*.

53. *Lantana*—Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March. Flowers resemble *Verbenas*; plants bloom all Summer. Red and orange shades, mixed. Pkt. 10c; ¼ oz. 30c.

54. *Lupinus*—Very desirable garden plants, showy, excellent for cutting. Graceful spikes, 2 feet, in various shades of white, blue, pink and mixed. Each, Pkt. 10c; oz. 60c.

55. *Larkspur or Annual Delphinium (Hollyhock Strain)*—Splendid annuals of easy culture. When sown early in spring will produce blooming plants in July. Graceful, fern-like foliage and slender spikes. Fine for cutting and garden decorations. White, blue, pink and all colors mixed. Each, Pkt. 10c; oz. 75c.

56. *Lobelia*—No garden is complete without an edging of blue lobelias. Very desirable for pots and hanging baskets. Crystal Palace. Pkt. 10c.

Marigold—These are old favorite free flowering annuals with rich showy flowers blooming all summer. The tall African varieties are best for garden and cutting, while the dwarf French varieties are best suited for edging and bedding purposes. In colors and mixed.

57. *Marigold, French*—Legion of Honor, single brown and yellow; Golden Ball, double golden yellow, dark brown, striped, and all colors mixed. Each, Pkt. 10c; oz. 60c.



California Poppy.

58. *Marigold, African Tall*—Lemon Queen, soft lemon yellow; Orange Prince, golden orange. Each, Pkt. 10c; oz. \$1.00.

58-1. *Marigold, African*—All colors mixed. Pkt. 10c; oz. 75c.

59. *Marvel of Peru (Four o'Clock)*—Bushy plants of easy culture, producing hundreds of flowers during the entire Summer; very showy; 2 feet. Pkt. 10c; oz. 30c.

60. *MESEMBRIANTHEMUM, Tricolor*. A lovely little annual; splendid for the rockery, sunnybank, etc., with daisy-like flowers showing a black disc in the center, which is surrounded with white ending into a brilliant scarlet. Looking at a bed of these showy flowers during intense sunshine, one can notice curious reflexes, for instance when looking into the face of a person it produces there the red color of the flowers. Pkt. 10c.



Larkspur or Annual Delphinium Hollyhock Strain.

60-1. **Mignonette Golden Machet**—Valuable for cutting on account of its fragrance. Sow in succession during the whole Summer; may also be forced in greenhouses during winter. Large reddish tinted, sweet scented flowers. Pkt. 10c; oz. 75c.

61. **Mimulus Tigrinus** (Monkey Flower)—Showy, profuse flowering plants; fine for greenhouses or moist, shady situations; 1 foot. Pkt. 10c.

61-1. **Mimulus Moschatus** (Musk Plant). Pkt. 10c.

Momordica—See Balsam Apple.

62. **Moon Flower** (*Ipomoea Noctiflora*)—Climber. At night and during dull days the plants are covered with an abundance of large, pure white fragrant flowers. Pkt. 10c; oz. 75c.

63. **Imperial Japanese Morning Glories**—These are beyond question the handsomest of all Morning Glories. Of the easiest culture, can be sown in the open ground in a sunny situation when the weather has become warm and settled; they soon cover a large area, and even before flowering are decidedly interesting on account of the



Marvel of Peru.

Mignonette.

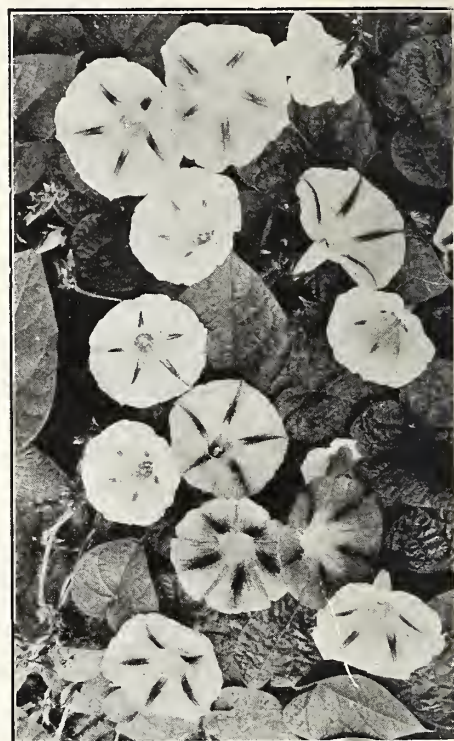
varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description; the self or solid colors range from snow-white to black-purple, with all the possible intermediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed. Pkt. 10c; oz. 25c.

Mourning Bride—See Scabiosa.

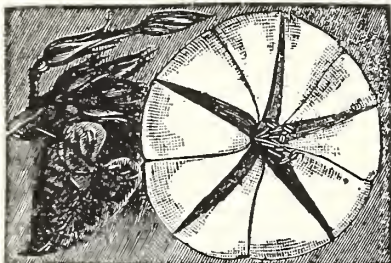
Nasturtium—See below.

64. **Nicotiana**—Splendid showy flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere. White, Purple and mixed colors. Each, Pkt. 10c.

65. **Oenothera** (Evening Primrose)—Beautiful low-growing plant, producing large, silvery white rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors; mixed. Pkt. 10c.



Morning Glories.



Moon Flower.

M.-S. GIANT FLOWERING NASTURTIIUMS

Nasturtiums are among the best known and most popular of hardy annuals, and within the past few years have been greatly improved in size as well as in colors and markings. Easily grown, and producing a great profusion of brightly colored flowers from within a few weeks after they are sown until they are killed by frost; they succeed best in rather light, well-drained soil.

66. GOLDEN GLEAM

A New Flower—1932 Novelty. It is a double, very fragrant Nasturtium.

The plant forms a vigorous, large bush which throws out short runners, averaging 18 inches. The flowers commence to come as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average $2\frac{1}{2}$ to 3 inches across. They are borne on erect, stiff stems 6 inches in length. Consequently the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant.

When well grown these flowers have the appearance of a fully double flower, and are most attractive. An ordinary sized bouquet, when allowed to remain in a room for a short period of time, will fill the room with fragrance. Pkt. 25c; 5 pkts. \$1.00.

DWARF VARIETIES

67. **Vesuvius** (Salmon Rose)—These have a neat, compact habit and attractive foliage, are not disturbed by insects, bloom most profusely the whole season.

68. **Chameleon**—Produces various colors and markings on the same plant.

69. **Empress of India**—Dark-leaved velvety dark scarlet flowers; select flowers.

70. **Spotted King, or Ladybird**—Rich yellow, scarlet-spotted flowers, dark-leaved; splendid.

71. **Queen of Tom Thumbs**—Variegated foliage; choicest mixture.

72. **Golden Queen**—Yellow-leaved, with golden yellow flowers.

Prices on all the above varieties: Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

73. **M.-S. Fancy Giant Flowering Mixed Dwarf**—Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

Our Nasturtiums are noted for their size, variety and brilliancy.

TALL VARIETIES

74. **Dunnett's Orange.**

75. **King Theodore.** Purple dark foliage.

76. **Crimson.**

77. **Pearl, Amber White.**

78. **Jupiter Yellow.**

Prices on all the above varieties: Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

79. **M.-S. Tall Nasturtiums, Mixed Colors**—For covering trellises, fences, arbors, piazzas, or trailing from vases, urns, etc. Bloom from early Summer until frost. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.



The New and Wonderful Nasturtium, Golden Gleam.



Mammoth Petunia.

Petunias

The Petunia is without a peer among annuals for effective Summer bedding or indoor culture. It is of easy culture early to blossom and continues throughout the Summer until the first killing frost. No other flower produces greater diversity of color, retaining its freshness for so long a period.

80. Superbissima, Giants of California. Fringed and ruffled single. The best strain of Giant pot grown Petunia, all selected from the finest new colors; hand pollenized and glass-house grown. Fine for potting. Pkts. 25c & 50c.

80-1. Grandiflora, Double Fringed Mixed. Selected and hybridized with the greatest care. Flowers large size, beautifully fringed and embracing the choicest colors. When transplanting Double Petunia it is very important to plant also the very smallest plants, as these as a rule produce the best double flowers. Pkt. 50c; 500 seed \$1.50.



Grandiflora, Double Fringed Giant Petunias.

81. M.-S. FINE BEDDING PETUNIA—Very fine. Striped, blotched and all colors mixed. Pkt. 10c; oz. \$1.50.

82. Snowball—Pure white. Pkt. 10c; oz. \$1.75.

82-1. Rosy Morn—Pink. Pkt. 10c; oz. \$2.

83. Heavenly Blue—Silvery blue. Pkt. 20c; ½ oz. 75c.

83-1. Howard's Star Petunia—A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinctive five-pointed white star. Single. Pkt. 10c; oz. \$1.50.

84. Balcony Petunias—A splendid free flowering type for window or porch boxes, vases, etc.; also valuable for bedding, giving a display of flowers throughout the entire summer until frost; the flowers are large, averaging 3 inches across. Blue, Red, Rose, White, and Mixed Colors. Pkt. 10c each.

Single and Double Poppies

A great advance has been made in recent years in the development of the Poppy which has brought it into deserved popularity, and it may be safely said that no other flower produces a more brilliant display of color during the blooming period. Annual Poppies should be sown as early in the Spring as possible where they are to remain, as they do not stand transplanting. If constant blossoms are desired, successive sowings should be made every two weeks.



Double Portulaca.

SINGLE POPPIES

85. M.-S. Shirley Poppies—A bed of these Poppies produces a gorgeous effect in the garden; large flowers with brilliant colors. Pkt. 10c; oz. 25c.

86. M.-S. Flame Poppy—A mixture of gorgeous red Single and Double Poppies. Pkt. 10c; oz. 75c.

DOUBLE POPPIES

87. Double Flowered Mixed Poppies—Immense double flowers, resembling a Peony; 2 feet. Pkt. 10c; oz. 30c.

Yellow Tulip Poppy—See Hunnemannia.

88. Portulaca Single (Mexican Rose)—Brilliant hardy annual, of easy culture; excellent for massing in beds or rock work; thriving best in a light, sandy soil and a sunny situation; flowers of the brightest colors. Pkt. 10c; oz. 75c.



Ricinus or Castor Oil Plant.

89. Portulaca Double—Pkt. 10c; oz. \$2.00.

90. Phlox Drummondii—Easily grown from seed; makes a brilliant display as a Summer bedding plant. White, pink, scarlet, lavender, and all colors mixed. Each, Pkt. 10c; oz. \$1.50.

90-1. Phlox Drummondii, Dwarf Cecily. 8 inch. For rock gardens. Large flowering; mixed colors. Pkt. 10c.

91. Rhodanthe—Very beautiful; delicate looking; everlasting. Much prized for Winter bouquets. Red and white and both colors mixed. Each, Pkt. 10c.

Ricinus (Castor Oil Bean)

One of our best ornament-leaved annual plants, largely used for the center beds, being splendidly effective grouped with cannas, Caladiums and other tall plants.

92. New Ricinus or Castor Oil Plant, "Red Spire"—The shapely bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with

Continued on next page.



Phlox Drummondii.



Salvia Splendens Scarlet Sage.

RICINUS "Red Spire"—Continued

prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seed pods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers, and like other Ricinus, absolutely insect-proof. As single specimens or in beds on the lawn, for filling up a corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. Per pkt. 10c; 40c per oz.

93. *Zanzibariensis*—Enormous leaves, varying in color from light green to purplish red. 12 feet. Pkt. 10c; oz. 25c.

94. *Sanguines*—Plants attain great dimensions—12 to 14 feet. Leaves a beautiful blood red. Pkt. 10c; oz. 25c.

95. *M.-S. Ricinus Mixture*—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. Pkt. 10c; oz. 20c.

SALVIA (SCARLET SAGE)

96. *Salvia Splendens*—This popular bedding plant is impossible to be replaced. There is nothing more effective in the Fall or mid-Summer than these bright scarlet flowers. Seed should be started either in the house from February till April or in hotbeds. Best bedder, beautiful scarlet flowers of immense size. Pkt. 10c; oz. \$1.50.

97. *Salvia Bonfire*—Compact bushy plants; two feet high, producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. Pkt. 10c; ¼ oz. 75c.

97-1. *Salvia, America or Globe of Fire*—Of dwarf, bushy, compact growth and very uniform in height and shape; spikes of brilliant scarlet flowers. Pkt. 25c; ¼ oz. \$1.50.

98. *Salpiglossis* (Painted Tongue)—Very beautiful, hardy, annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop. Blue, rose, violet, red, purple, yellow, maroon and all colors mixed. Each, Pkt. 10c.

99. *Scabiosa* (Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)—Beautiful colored flowers 2½ feet high; fine for cut flowers. Pkt. 10c.

100. *Scarlet Runner*—Ornamental and useful climbing beans. Pkt. 10c; oz. 15c.

101. *Sensitive Plant (Mimosa)*—A curious and interesting half-hardy annual, with pinkish flowers; leaves close when touched; 1½ feet high. Pkt. 10c.

101-1. *Smilax*—A well-known greenhouse climber, with small dark-green foliage, of great value in floral work. Pkt. 10c; oz. 75c.

101-2. *Schizanthus*—Butterfly or fringed flower. Pkt. 10c.

102. *Statice*—These have become quite popular, the flowers being used extensively by many of the leading florists, the seeds are supplied in the dried flower heads which may be started indoors or sown in the open when the weather gets warm, in any case, in order to secure satisfactory germination the flower heads should be placed in the soil on their sides; 18 inches. Bright Yellow, Bright Rose, Rich Blue, White, or all colors mixed. Each, Pkt. 10c.

103. *Stock*—Half-hardy annual; fine for cutting, bedding or edging, also pot culture. Average 1 to 1½ feet. White, pink, yellow, crimson, light blue, dark blue, or all colors mixed. Each, Pkt. 10c.

Strawflower—See *Helichrysum*.

Sunflower

(*Helianthus*)

Well known annuals, the small flowering sorts being useful for cutting; the tall varieties are valuable for backgrounds.

SMALL FLOWERED SORTS

104. *Cut-and-Come-Again*—Single golden yellow flowers, with petals twisted like a Cactus Dahlia. Pkt. 10c; oz. 40c.

105. *Dwarf Double (Globe of Gold)*—Yellow flowers; 3 feet. Pkt. 10c; oz. 30c.

106. *New Red*—Extra large flowers, some of which are rich chestnut red, others tipped with yellow. Pkt. 10c; oz. 60c.

107. *Russian Mammoth*—Immense single yellow flowers on tall heavy stalks; 6 feet. Pkt. 10c; oz. 15c.

108. *Thunbergi* (Black-Eyed Susan)—Beautiful. Very ornamental climber. Pkt. 10c.

108-1. *Shamrock*—Makes dainty little house plants. Easily grown from seed. True Irish, small leaved variety. Pkt. 10c.

108-2. *Stevia*—Serrata free blooming plants for summer or winter, bearing a profusion of fragrant white flowers. Fine for cutting. 2 ft. Pkt. 10c; large pkt. 30c.



Salpiglossis (Painted Tongue).

109. *Verbena*—Dwarf bedding plants for a gorgeous display during the Summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M.-S. Fancy White, Scarlet, Blue, Pink and all colors mixed. When ordering state color wanted. Each, Pkt. 10c; oz. \$1.50.

110. *Vinca* (Madagascar Periwinkle)—Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early. White with pink eye, White, Pink and all colors mixed. Pkt. 10c.

**MIXED FLOWER SEEDS
FOR WILD GARDEN**

This mixture embraces a large number of varieties of easy-growing, beautiful and interesting annual flowers, which will furnish a profusion of bloom throughout the entire summer and autumn; many of the varieties will be found useful for cutting.

111. *Tall Sorts*. Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.00.

112. *Dwarf Sorts*. Growing from 12 to 18 inches high. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.



Sunflowers (New Red).



Stocks.

M.-S. ZINNIAS (Youth and Old Age)

One of the most showy and satisfactory of our hardy annuals for beds, mixed borders and for cutting purposes; easy to grow in any good garden soil. They commence flowering early in the summer and continue until frost.

M.-S. GIANT DAHLIA FLOWERED ZINNIAS

Plants of vigorous habit, from 2½ to 3 feet high; mammoth flowers 4 to 6 inches across and 2½ to 3 inches deep and so closely resembling decorative Dahlias, that when placed by their side, it is difficult to distinguish one from the other. This new type is also valuable for growing under glass for cutting.

113. **Canary Bird**—Canary yellow. Pkt. 15c; ½ oz. 35c; ¼ oz. 60c; 1 oz. \$2.00.

114. **Crimson Monarch**—By far the largest and best of the red shades; plants very vigorous. Price same as above.

115. **Dream**—A fine, deep lavender turning to purple, a new, desirable shade in Zinnias. Price same as above.

116. **Exquisite**—One of the most pleasing in the collection; truly Dahlia-flowered as regards form and size; color, light rose, with deep rose center. Price same as above.

117. **Golden State**—A very rich orange yellow; yellow in the bud, turning to an attractive orange when in full bloom. Price same as above.

118. **Purple Prince**—A fine, deep purple, large and well formed. Price same as above.

119. **Oriole**—One of the most beautiful of its class; an immense orange and gold bi-color, changing slightly as it ages, but at all times worthy of the beautiful bird for which it was named. Price same as above.

120. **Polar Bear**—A very large pure white; the best white yet seen in Zinnias. Price same as above.

COLLECTION
Of One Packet Each of the
Above 8 Sorts, \$1.00.

121. **FINEST MIXED D. F.**
Containing a wonderful range
of beautiful colors. Pkt 10c; ½
oz. 30c; ¼ oz. 50c; 1 oz. \$1.50.

122. **ZINNIA, Scabiosa Flow-
ering**—1932 Novelty. This new
Zinnia is entirely different to
all other Zinnias. The plant
reaches a height of 40 inches
and flowers profusely. Its out-
standing feature consists in
the formation of the flower
forming an outer ring of long
petals, whereas the centre
shows many small flowers
which at first sight have a
great likeness with the Scabi-
osa. Mixed colors. Pkt. 25c.

122-1. **ZINNIA, Double Ro-
busta**—1932 Novelty—Nana
Rosea. A beautiful little Zin-
nia growing only 16 inches in
height and of very compact
habit covered with a mass of
large double Pink flowers. This
is a valuable addition in Zin-
nias. Pkt. 25c.

Gentlemen:—

Your \$1.00 collection of Dah-
lia-Flowered Zinnias are the
finest I have ever had.

CHAS. E. H. BROWN,
Waynesboro, Pa.



M.-S.
Dahlia-Flowered
Zinnia.

Mr. C. B. Dallam of Guilford
tells us that our Dahlia-Flow-
ering Zinnias are finer than
any he has had.



A Collection of M.-S. Giant Dahlia Flowering Zinnias.

1932 NOVELTY ZINNIAS

No. 121
Scabiosa Flowering
No. 122
Double Robusta
Nana Rosea

SPECIAL OFFER
1 pkt. of each, 40c

Give them a trial—
They will surprise
you.



Giant Picotee
Type Zinnia.

123. **Dwarf Double Zinnias**—Compact bushes not over two feet in height; double flowers, all of the largest size, making them of great value in large beds, borders, etc.; grown under favorable conditions, they remain in bloom from early summer to late autumn. We offer this seed in a splendid mixture. Pkt. 10c; oz. 50c.

124. **Robusta or Giant Double Zinnias**—Plants grow to a height of 2½ to 3 feet with immense perfectly double flowers; splendid for cutting or garden effect. Price same as above.

125. **Double Lilliput or Pompon Zinnias**—A very pretty type of compact habit not over 15 inches high, bearing in lavish profusion, small densely double flowers on long stems, held well above the foliage. Makes a good border or bed and are of more than usual value for cutting. Yellow, Salmon, Rose, Red, White and all colors mixed. Each, Pkt. 10c; oz. \$1.00. A pkt. of each color, 40c.

126. **M.-S. Victory Zinnia**—This is a new introduction of Zinnia, forming quilled petals. Choice mixed including all beautiful and several new colors. Pkt. 10c; oz. \$1.00.

127. **Curled and Crested Zinnia**—The petals of this beautiful strain are twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnia. Pkt. 10c; oz. 75c.

128. **M.-S. Picotee Type Zinnia**—This exquisite new Zinnia, the flowers of which are not quite as large as the double giants, are very effective in appearance, as the edges of the petals are all well marked with a distinct color to the body of the flower, making them very attractive as bedders and cut flowers. Pkt. 10c; oz. \$1.00.

M.-S. SELECT SWEET PEAS

For Sweet Pea Innoculation, see page 29.

All Sweet Peas
Postpaid.

HOW TO GROW SWEET PEAS

Use 1 oz. of seed
to 25 ft. of row.

The soil for Sweet Peas should be rich and deep. A good rich loam with plenty of well-rotted manure in it, is the ideal soil for raising good plants that will produce plenty of blooms of good substance. Considerable benefit has been noted from the use of Innoculating Culture. We can supply a special culture for Sweet Peas for 25 cts.—enough for any ordinary garden. They should be in a position fully exposed to the sunlight and air on both sides of row.



Spencer Sweet Pea.

They should be sown as early in the season as the ground can be worked, which is usually between the middle of March and the middle of April in the latitude of Baltimore. It is best to make a trench or furrow about 6 inches deep, in the bottom of which sow the seed. Cover with about an inch of soil, pressing it down firmly. As soon as they are above ground thin out to 2 to 4 inches apart; when planted too close they do not attain their full development. They should be staked up either with branches of brush or stout stakes on which wire netting has been fastened. These should be at least 4 feet high, and 5 feet would be better. The flowers should be cut as often as possible to prevent the plants from running to seed, which would stop them from continuing in bloom.

M.-S. Superb Spencer Sweet Peas

129. M.-S. Superb Spencer Sweet Pea Mixture—This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring gorgeous color effect. Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

M.-S. Spencer or Orchid Sweet Peas

SEPARATE COLORS

130. AVALANCHE. A strong growing glistening pure white Spencer Sweet Pea. The flowers are of splendid texture and quality, large and well waved.

All Following Are Perennials

10 cents per packet unless otherwise noted.

Perennials. Those which live from year to year, such as Aquilegia, Delphinium, Foxglove, etc. Seed may be sown outdoors from June to September and transplanted late in fall into their permanent quarters, and protected during winter with a light litter of straw or leaves.

145. Anchusia (Italica Dropmore)—3 to 5 feet high. Blooms May and June, rich gentian blue. Pkt. 10c.

146. Anthemis (Hardy Marguerite)—A handsome, hardy perennial, bearing all summer, daisy-like bright yellow flowers; excellent for cutting. 2 ft. Pkt. 10c.

147. Aconitum (Monks Hood)—Pkt. 10c.

147-1. Alyssum Saxatile (Yellow) (Basket of Gold)—For rock gardens. Pkt. 10c.

148. Anemone Coronaria—Anemones are easily grown from seed, bloom early, when good cut flowers are scarce, and are perfectly hardy. Pkt. 10c.

149. Arabis (Rock Cress). Early spring flowering plants especially adapted for edging and rockery, 6 inches high, pure white blossom, flowers in May. Pkt. 10c.

149-1. Perennial Aster (Michaelmas Daisy)—Pkt. 10c.

150. Antirrhinum (Snapdragon)—A splendid plant for beds or borders and one of

our choicest cut flowers. To have flowers early, sow indoors during February and March. Scarlet yellow, terra cotta and yellow, white, pink and all colors mixed. Each, Pkt. 10c; \$1.00 per oz.

151. Campanula Media (Canterbury Bell). These are strictly biennials and require the following cultural directions: Sow from June 1st till September 1st; when strong enough transplant to a distance of six inches apart, after frost has set in protect



Alyssum (Basket of Gold).

131. MAJESTIC CREAM. This is a fine, rich deep cream. The vines are vigorous and usually 4 flowers are carried on long stems. It is very nicely waved and a very attractive variety.

132. PINKIE. Pinkie is a glorious rich, rose pink. It is an exceptionally vigorous growing variety, being outstanding in this respect. The vines continue to flower for a longer period than any other pink variety. The flowers are nicely placed on exceptionally long stems. Altogether, Pinkie is the best garden variety of Sweet Pea in commerce.

133. AUSTIN FREDERICK IMPROVED. A beautiful, pure lavender. This variety is also noted for its long stems, usually carrying four beautifully waved flowers to each stem.

134. REFLECTION. Reflection is the best clear blue Sweet Pea and the growth of this variety is very strong. Reflection is quite free from any mauve tone and is the most popular and best clear blue to date.

135. WARRIOR. Maroon. A very rich deep maroon. The flowers expand nicely and are borne on strong growing vines. This maroon has a fine sparkling sheen making the flower a very attractive one in the deep shades.

136. SYBIL HENSHAW—Red. Sybil Henshaw is the largest and strongest growing crimson red Sweet Pea. The flowers are beautifully placed on long stems and are well waved.

137. MRS. A. SEARLES. A delightful salmon cerise pink. The variety is a strong growing one and the flowers do not burn. This is one of the most popular shades in Sweet Peas and especially under artificial light it shows up to great advantage. The flowers are nicely waved and well placed on good long stems.

Price on all the above—Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

WE LIKE TO HEAR FROM PLEASED GARDENERS

Geo. Tracey, gardener for Mr. F. N. Iglehart, tells us that our Named Spencer Sweet Peas are the finest he has ever seen.

M.-S. Winter Flowering Spencer Sweet Peas

While these are especially adapted for forcing under glass for winter and early spring blooming, they are also valuable for outdoor culture, coming into bloom five or six weeks earlier than the regular Spencer or Orchid flowered type, and if the flowers are kept cut, they will continue to bloom for a long time.

138. Early White Harmony—A large improved pure white; an extra fine variety.

139. Early Harmony—Clear lavender throughout; of large size and well waved.

140. Early Meadow Lark—Large early cream.

141. Zwolaneck's Rose—A very large and wavy, rich pink.

142. Early Blue Bird—Blue.

143. Grenadier—Dazzling scarlet.

144. Pink Profusion—Rich pink, standards and wings waved and crinkled.

All the above, and all colors mixed, 10c per pkt.; ½ oz. 30c; 1 oz. 60c.

Hardy Sweet Peas

See Lathyrus Latifolius.

PERENNIAL PLANT CATALOGUE, describing height of plant, period and color of bloom, ON REQUEST.

with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them. Single Cup and Saucer blue, pink, white, or mixed, and double mixed. Each, Pkt. 10c.

152. Candytuft Perennial (Iberis)—White and Pink. Each, Pkt. 10c; ¼ oz. 30c.

152-1. Chinese Lantern Plant—An ornamental plant, forming dense bushes about 2 feet high, producing freely its bright orange-scarlet lantern-like fruits, which can be cut and dried for winter bouquets; highly interesting. Pkt. 10c.

152-2. Cheiranthus, Allioni (Siberian Wall-flower)—A biennial; brilliant orange flowers; 1 foot. For rock garden. Pkt. 10c.

153. Coreopsis (Lanceolata Grandiflora)—A hardy perennial bearing a profuse and long-continued succession of large, bold, golden yellow flowers during the whole summer months. Seed sown in March will flower the same season. Height 2½ feet. Pkt. 10c.

154. Columbine, or Aquilegia—A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for

flowering the following season. They thrive well under ordinary garden culture. Few hardy perennials are so easily grown from seed, and will give such satisfaction. Yellow red-spurred, Old Rose yellow-spurred, Blue shades and mixed. **Each, Pkt. 10c.**

155. Daisy, English Double (Bellis Perennis)—Seed should be sown from June 1st until September, transplanted in the Fall, and they will flower the following Spring. If sown in the Spring they will flower in the Autumn; 4 inches; white, pink, crimson and mixed. **Each, Pkt. 10c.**

155-1. Shasta Daisy—Very large; white single flowers on long stems. **Pkt. 10c.**

156. Delphinium (Hardy Perennial Larkspur)—Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flower spike is cut back promptly it will branch and flower all through Fall. **Bellamosum:** Deep Blue. **Pkt. 10c;** ¼ oz. \$1.00. **Belladonna:** Light Blue. **Pkt. 10c;** ¼ oz. \$1.00. **White,** **Pkt. 10c;** ¼ oz. 50c. **Deep Scarlet,** **Pkt. 10c;** ¼ oz. \$1.50.

157. Kelway's Hybrid Mixed. **Pkt. 10c;** 50c per oz.

158. Delphinium Hybrids Double—**Pkt. 25c and 50c.**

158-1. Imperial Giant Delphinium—From the famous Delphia Dell Gardens in the State of Washington. Growing very tall, flowers single, double and triple in every known delphinium color. **Pkt. \$1.00.**

159. Dianthus Plumarius (Garden Pinks)—These varieties are well adapted for beds and borders; delightful, refreshing, spicy odor; should be in every garden where cut flowers are wanted, and make a fine edging to a hardy border. Single Crimson, White, Pink and Single and Double Mixed. **Each, Pkt. 10c;** ¼ oz. 40c.

159-1. Dianthus Latifolius Atrococcineus—Double scarlet; very free flowering; 1 ft. For rock garden. **Pkt. 10c.**

160. Digitalis (Foxglove)—Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 ft. Purple, rose, white, and all colors mixed. **Each, Pkt. 10c;** oz. \$1.00.

160-1. Flax (Linum)—Bright blue flowers. 24 inches. **Pkt. 10c.**

161. Gaillardia—If sown early will bloom first season. Mixed colors. **Pkt. 10c;** oz. 90c.

162. Geum—Double flowers of intense orange scarlet. 2 feet high, for sunny location. **Pkt. 10c.**

162-1. Gypsophila—Paniculata alba. **White.** **Pkt. 10c;** oz. 75c.

163. Gypsophila, Repens—A fine trailing plant, covered with tiny white flowers; 8 inches. For rock garden. **Pkt. 10c.**

164. Hibiscus (Mallow)—These bear very showy flowers, are easily grown and should find a place in every garden. Mixed. 4 feet. **Pkt. 10c.**

164-1. Heuchera Sanguinea (Coral Bells or Alum Root). Perennial; spikes of vivid crimson flowers; excellent for cutting; 1 foot. For rock gardens. **Pkt. 10c.**

164-2. Helianthemum (Rock, or Sun Rose) **Mutabile**—A very pretty perennial for the rockery; completely covered with masses of bloom from July to September; choice mixed varieties. 12 inches. For rock garden. **Pkt. 10c.**

165. Hollyhock, Double—Rose, white, salmon, maroon, yellow, Newport pink, crimson and mixed colors. **Each, Pkt. 10c;** oz. \$1.25.

165-1. Hollyhock, Single—Choice colors mixed. **Each, Pkt. 10c;** oz. \$1.25.

166. Heliothis (Orange Sunflower) (Pitcheriana)—A handsome hardy perennial; producing an abundance of deep orange yellow flowers the entire Summer; excellent for cutting; 3 to 4 feet. **Each, Pkt. 10c.**

166-1. Helianthus (Dwarf Sunflower)—Early flowering; yellow. **Pkt. 10c.**

166-2. Kudzu Vine (Puevaria Thunbergiana)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome purple flowers. The vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc. **Pkt. 10c.**

167. Lathyrus Latifolius (Perennial Sweet Pea)—Showy hardy climber, fine for covering walls and stumps. Free flowering. Pink, red, white, pearl and mixed colors. **Pkt. 10c;** oz. 75c.

168. Lythrum (Loose-Strife) **Roseum Superbum**—A fine hardy perennial, producing spikes of rosy-pink flowers, from July to September. 3 feet. **Pkt. 10c.**

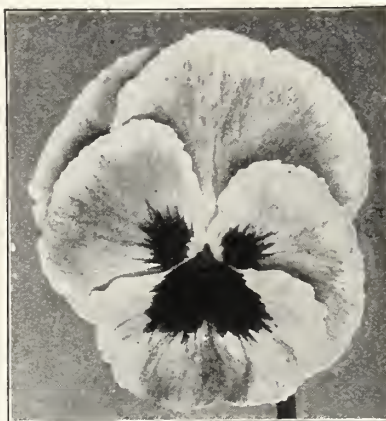
168-1. Lupinus—Hardy perennials of easy culture, with graceful spikes of pea-shaped flowers; May and June; 2 to 3 feet. Blue, Pink, White and mixed colors. **Each, Pkt. 10c.**

169. Lavender-Vera—Fragrant blue flowers. **Pkt. 10c.**

169-1. Myosotis (Forget-Me-Not)—Beautiful, half hardy perennials, succeeding best in moist shady situations. Sown in the spring they will flower in the fall; if wanted for early spring flowering seed should be sown in frames in July or August. **Alpestris**—Of bushy habit, bearing large bright blue flowers; very fine; 6 inches. For rock garden. **Pkt. 10c.**

169-2. Nepeta Mussini—A favorite perennial; blue gray, foliage, pale mauve flowers; 9 inches. For rock garden. **Pkt. 10c.**

169-3. Oenothera Missouriensis—Large bright yellow flowers; 4 inches. For rock garden. **Pkt. 10c.**



M.-S. Giant Exhibition Pansy.

M.-S. Perfect Pansies

Strictly considered this a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which Pansies can be planted. If started in the house from February till April Pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the Fall; sown in frames during July and August and transplanting later gives us the main crop of flowers the following spring. Pansies thrive best in moist semi-shade situations, open exposure.

170. M.-S. GIANT EXHIBITION PANSIES—A blending of our own, containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. **Pkt. 10c;** per oz., \$3.00.

170-1. Triumph of Giants—Flowers of great brilliancy and richness of coloring, including many new and rare shades. **Pkt. 25c;** 5 pkts. \$1.00; oz. \$6.00.

170-2. Masterpiece (Frisled Pansy)—Flowers beautifully curled or waved. Exquisite colors. **Pkt. 10c.**

171. Orientale Poppies—Enormous flowers of deep flashing scarlet and mixed; 3 ft. Entirely hardy anywhere. **Each, Pkt. 10c.**

171-1. Poppy, Mrs. Perry—Rich salmon pink. **Pkt. 10c.**

171-2. Iceland Poppy—These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; 1 foot. **Pkt. 10c.**

172. Primula Veris Mixed (Cowslip)—Hardy primroses are among the most prized of our Spring blooming plants. 1 to 1½ feet high. Mixed colors. **Pkt. 10c.**

172-1. Primula Obconica (Primrose)—Winter and spring blooming pot plant. **Pkgs. 60c and \$1.00.**

173. Pyrethrum—Handsome hardy perennial plants for the herbaceous border; flowers showy and excellent for cutting. **Single Mixed.** **Pkt. 10c.**

173-1. Phlox Hardy—For a gorgeous show these are the most satisfactory of all perennial plants. 2 to 3 feet high in all bright colors; seed sown late in Fall will germinate in the Spring; Mixed colors only. **Pkt. 10c;** oz. \$3.00.

174. Rudbeckia-Newmani (Coneflower)—One of the finest of autumn-flowering perennials, bearing large flowers. Bright orange-yellow petals surrounding a large black cone. **Pkt. 10c.**

174-1. Rudbeckia Purpurea—Most interesting flower, producing all summer large showy reddish purple flowers. **Pkt. 10c.**

175. Statice Latifolia (Sea Lavender)—Purplish-blue flowers. 2 feet. Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. **Pkt. 10c.**

175-1. Saponaria Ocymoides—A splendid plant for the rockery; rose colored flowers; 9 inches; for rock garden. **Pkt. 10c.**

176. Scabiosa Caucasia—One of the hand-somest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; color soft lavender-blue; 3 feet. **Pkt. 10c.**

176-1. Isaac House Strain—An improvement on the above; larger flowers and longer stems; color from soft lavender to dark blue. Mixed. **Pkt. 25c.**

177. Stokesia (Cornflower Aster)—Blooms all Summer. Large attractive flowers, resembling asters; fine for cut flowers; two feet high. Blue and mixed. **Pkt. 10c.**

177-1. Sweet Rocket (Hesperis)—Excellent for naturalizing among shrubbery or for planting in a permanent border. Fragrant flowers. White, lavender and mixed; 2 to 3 feet. **Each, Pkt. 10c.**

178. Sweet William (Dianthus Barbatus)—This is one of the finest of our hardy garden plants; of easy culture, thriving in any good garden soil and lasting for years. The plants grow about 1½ feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single scarlet, Newport pink, maroon, white and all colors mixed and double mixed. **Each, Pkt. 10c;** oz. 75c.

179. Tritoma Hybrida—Red Hot Poker, Flame Flower, or Torch Lily. **Pkt. 10c.**

179-1. Violet—Deservedly much in demand because of their profusion of bloom and delicate odor. **Blue Czar.** Single Blue. **Pkt. 10c.**

179-2. Veronica (Speedwell)—Blue flowers, 1½ feet high, June and July. **Pkt. 10c.**

180. Violas, or Tufted Pansies—For rock garden. All colors mixed. **Pkt. 10c;** oz. \$2.50.

180-1. Viola Jersey Gem—Possesses the dwarf habit and continuity of bloom of the Tufted Pansy, but is of more vigorous growth, making it one of the finest bedding varieties; color, rich violet, slightly perfumed. For rock garden. **Pkt. 50c;** large pkt. \$1.25.

180-2. Viola Bosniaco (Johnny Jump-up)—Free bloomer; small leaves; purple flowers. For rock garden. **Pkt. 10c.**

181. WALLFLOWER—Favorite sweet-scented flowers of fine colors. Splendid for cutting and useful as Spring bedders. Single Red, and Single and Double-flowering Finest Mixed. **Each, Pkt. 10c.**

M. - S. SUPERFINE GLADIOLUS OUR BULBS ARE 1½ INS. AND UP.

If to be sent by Parcel Post, add postage at 25c per 100.
Single bulbs and dozens we deliver free in United States.

Culture—What a wonderful stride the Gladiolus has made during recent years. Its popularity today is exceeded by few other flowers, and it has by no means reached its limit. And there are good reasons for this popularity. Failure with it has never been known. Gladiolus will grow in any open position, where there is a fair amount of sun, and bloom well. They are not only showy in the garden, but, when cut with the first flower open will last for 10 days in the house. The newer colorings defy the choicest orchids. Plant bulbs 3 to 4 inches deep, 6 inches apart and stake when 2 feet high. Flowers appear from early July until late in the fall.

EXHIBITION GLADIOLUS

"Berty Snow"—A strikingly handsome prize winner at every show in every class in which it was entered last Fall. Berty Snow is the most beautiful, soft lavender colored Gladiolus imaginable. The flowers are very large, of excellent substance and placement on long, strong spikes. Eight or more flowers open at one time. A great Exhibition variety. Wonderful color. Each 25c; \$2.50 per doz. Six at dozen rate.

Dr. F. E. Bennett—Shows up like "house-a-fire" in any collection. Bright Scarlet, large flower.

Mrs. Leon Douglas—The giant of gladiolus. Often reaches 6 ft. tall with large flowers of choice rose pink.

Golden Dream—Clear deep yellow; long stems; a very fine, new introduction.

Mr. W. H. Phipps—La France pink, overlaid light rose salmon; one of the finest exhibition varieties.

Minuet—This variety has created a sensation in the show room for several seasons; color, light lavender, with four to six large, heavy blooms open at one time.

Pfitzer's Triumph—Enormous blooms of bright salmon orange, with very small deeper throat blotch; on account of the gigantic flowers, the stems require staking; early. This variety is a sensation at all shows and is ideal for exhibition purposes.

All the above 20c each. The collection (No. 1) of Six for \$1.00. \$1.75 per doz.; \$10.00 per 100. 50 at the 100 rate.

Jenny Lind—The blossoms are pure apricot pink; throat pale yellow, the two colors blending to perfection. Many blooms open at one time. One of the most exquisitely beautiful of Gladiolus and recommended without reserve.

Captain Boynton—Deep lavender. Large flowers on tall stems, royal and stately.

Golden Measure—Fine golden yellow; very large flowers.

Mrs. Fred C. Peters—Gorgeously light blue with deeper markings, many flowers open on long stems.

Taro—The wonderful color of the American Beauty rose. Heavily ruffled, perfect placement on good strong spike. Mid-season.

Persia—Shiny, velvety dark maroon, almost black.

All the above 15c each. The collection (No. 2) of Six for 75c. \$1.25 per doz.; \$8.00 per 100. 50 at the 100 rate.

Flaming Sword—A beautiful bright red variety; early bloomer; four to six open at the same time.

Anna Eberius—A deep rich purple; very unusual and particularly attractive.

Crimson Glow—A splendid dark red.

Louise—Exquisite shade of clear lavender, growing brighter toward the center.

L'Immaculee—Pure white, long spikes with many flowers open at one time; very early.

Los Angeles—Choice salmon pink; large spike with many flowers; tall stem.

Virginia—Wide open flowers of a bright, cheery Christmas Red.

All the above 10c each. The collection (No. 3) of Seven for 60c. 90c per doz.; \$6.00 per 100. 50 at the 100 rate.

Tycko Zang—Very large flower of a Salmon Pink shade, unusual and attractive.

Nancy Hanks—Rich apricot, shaded orange pink. Petals are of exceptional texture and substance and the fine large flowers will not burn in summer heat. A vigorous, robust grower.

Evelyn Kirtland—Beautiful shade rosy-pink, darker at the edges, with brilliant scarlet blotches on lower petals. Tall spike, extra form and color.

Herada—Blooms of immense size on tall, straight spikes; the color is pure mauve, glistening and clear with deeper marking in throat. An unusual color and very effective as a cut flower.

Mrs. Dr. Norton—Very large flowers well set on a tall and graceful spike with 4 to 8 flowers in bloom at one time. Color, white with edges of petals suffused with soft La France pink; a very choice variety.

Souvenir—Pure deep golden yellow, early flowering, graceful and artistic.

All the above 8c each. The collection (No. 4) of Six for 40c. 75c per doz.; \$5.00 per 100. 50 at the 100 rate.

The Gladiolus which I purchased from you the past Spring are the best I have ever seen or had.—Mrs. J. L. OLSEN, 2802 White Avenue, Hamilton.

Beautiful white with lilac feathering on lower petals.
All the above 7c each. The collection (No. 5) of Six for 35c. 60c per doz.; \$4.00 per 100. 50 at the 100 rate.

M. - S. Giant Flowering Mixed Gladiolus, composed of all named varieties in gorgeous blending. 5c each; 40c per dozen; \$2.75 per 100. 50 at the 100 rate.

TREAT GLADIOLUS AND ALL OTHER BULBS WITH SEMESAN

Prevent scab, hard rot and similar surface-borne diseases from destroying your crops by soaking them in 2 per cent liquid Semesan for seven hours. Destroys diseases, increases sprouting and size of flowers and improves brilliancy of color. See page 50 for prices.

Begonias

(Tuberous Rooted)

Enormous wax-like flowers appear uninterruptedly from June until frost. Start indoors in March, and transfer outdoors about May 1st.

A most charming plant with beautiful foliage. We are offering single and double. Colors red, white, yellow, pink, salmon and mixed. Price 25c each; \$2.50 per dozen, postpaid.

Montbretias

These are one of the brightest and most attractive of summer flowering bulbs and should be planted extensively. The bulbs should be planted out in the early spring, in clumps of a dozen or more, placing the bulbs 3 to 6 inches apart. They should be protected during the winter with a heavy covering of leaves or litter.

Fire King. Fiery red.

George Davison. In pure golden yellow.

Etoile de Feux. Vermillion, clear yellow center.

All above 10c each, \$1.00 dozen, \$6.00 per 100, postpaid.



M. - S. Giant Flowering Mixed Gladiolus.

Le Marechal Foch—Beautiful shade of light pink, flowers very large; one of the earliest.

Wilbrink—Pale vivid pink with creamy blotch on lower petal; very early and a fine cutflower.

Mrs. Francis King—Light scarlet, lower petals splashed deeper red. Tall spikes; very popular.

Mrs. Frank Pendleton, Jr.—The color is a delicately flushed salmon pink extending to the reverse side of the petal. The blooms are wide open and are arranged individually on very wiry stems. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals.

Panama—Beautiful pink. Distinctive and popular.

Peace—Flowers are large of good form, correctly placed on heavy straight spike.



Double Tuberous Rooted Begonias.

M.-S. SUPER SURE-BLOOMING DAHLIAS

Exhibition Dahlia Tubers Ready For Delivery by 1st of February

Plants Ready After May 15th

ALL DAHLIAS
POSTPAID

Cultural Directions

Spade or plow the ground to a depth of about 10 inches. As a fertilizer, use sheep manure and quick-acting bone meal, which should be well mixed with the soil. When the soil is properly prepared, dig a hole 6 inches deep, in which to plant the Dahlias. The bulbs should be laid down flat and covered to a depth of 4 inches. Every Dahlia should have from 2½ to 3 feet space and at least 4 feet between the rows.

As soon as the plants are a foot above the ground they should be tied to a stake.

Keep the ground well cultivated and free from weeds. An application of sheep manure about every two weeks will be of great benefit.

Never leave more than one shoot to a plant. You will have better plants and larger flowers if you will allow only one main shoot to a plant.

KEY TO CLASSIFICATION: (I.D.) Informal Decorative. (F.D.) Formal Decorative. (C.) Cactus. (S.C.) Semi-Cactus. (B.) Ball. (P.) Pompon.



Cactus Dahlia Golden Sonne.

	Roots	Plants
ANDREA ERICSON (I.D.) A flower of good form, on good stems. Free bloomer with large white blooms. A real winner in the white classes.....	7.50	3.75
AUNT CLARA (F.D.) This dahlia showed up very well again last season. Color is crimson shaded purple. Free, open grower, producing blooms in rapid succession. Flowers are splendid keepers when cut. A prolific root producer. One of the very best	4.00	2.00
ACHIEVEMENT (I.D.) An enormous gold and bronze flower produced on perfect stems. In depth as well as diameter, one of the very largest dahlias grown. One of the big "fellows" that cannot be improved upon	7.50	3.75
CHEMAR'S EUREKA (F.D.) One that always makes excellent showing on the show floor and in the garden. White flower with just a trace of pink or lavender in the center. A good cut flower on account of its keeping qualities.....	2.50	1.25
CITY OF TRENTON (I.D.) Color tangerine, reverse strawberry red. Can be grown to large size. Always produced on perfect stems. No roots.....	—	1.00

The Dahlias which you furnished last Spring are now producing the largest and loveliest blooms I have ever had.—Mrs. HENRY P. BRIDGES, "Shelbridge," Johnson City, Tenn.

	Roots	Plants
COLOR SERGEANT (I.D.) An unusual shade in dahlias. A rich, deep salmon bronze. Strong open grower with cane-like stems. Flowers keep well after cutting. A bloom that causes a lot of comment wherever shown. No roots.....	—	1.00
CITY OF WELLSTON (F.D.) Rhodamine purple, with tones of tyrian rose. Early and profuse bloomer, stems extra heavy to medium with bushes tall to medium in height, possessing rich green foliage. Scored 85 at the A. D. S. Trial Grounds in 1930	7.50	3.75
CHAMPOEG (F.D.) Canary yellow with salmon pink shadings, giving a very pleasing color combination. Can be grown to enormous size, on long stiff stems. One of the very best keepers after cut. A real asset to any garden.....	5.00	2.50
DAD (I.D.) Brilliant red, produced on fine stems. Large, well shaped blooms that will not burn in the sun. We recommend this as one of the best.	2.00	1.00
DONNA CALIFORNIA (F.D.) Deep rose pink suffused with lavender. Another one that can be grown to enormous size. Excellent stems and consistent winner on the show table last season....	5.00	2.50
DOROTHY STONE (I.D.) This is a beautiful distinct pink flower. Good, long, stiff stems. Full, high centered blooms borne in profusion.....	4.00	2.00
D. W. MORROW (I.D.) A dahlia that words cannot do justice to. For us it was the best dahlia ever grown in our gardens. The only "soft" red flower known. Gigantic blooms on good stems. The best thing in red dahlias ever introduced.....	10.00	5.00
EVA QUADLING (F.D.) Immense full-centered blooms held well above the foliage, petals folding back around the cane stiff stems. Ox-blood red, one that is admired by all lovers of red dahlias. An excellent bloom both for exhibition and cutting. One that we recommend highly. No roots..	—	2.00
ELIZA L. SHEPPARD (I.D.) A bright golden orange bloom of good substance. High, full centers throughout the season. Strong upright grower and free bloomer.....	5.00	2.50
EAGLE ROCK FANTASY (I.D.) Clear, mallow pink of great size and depth. Received a Certificate of Merit at Storrs'. The habits of this dahlia are ideal, the best of stems that are long and stiff with the monster bloom set just at the right angle, looking you straight in the face. The foliage is dark green, and seems to be immune from insects. Something different, has size and then some	10.00	5.00
EAGLE ROCK WONDER (S.C.) Color is orange shading to orange-buff with tints of coral-pink. A monstrous bloom on heavy, stiff stems. Perfect form and habits, profuse bloomer with good substance and qualities. Excellent root maker.....	5.00	2.50
FORT MONMOUTH (I.D.) Color of this wonderful origination is a rich claret with no shadings. Flowers are of immense size, well formed and has high centers. Prolific grower and robust bloomer on long perfect stems. A giant in the dahlia world. No roots.....	—	1.50
FREDERICK W. CHURCH (I.D.) Very delicate in tone, center pale rose purple with petals white but tinted faintly with rose purple. Flowering habit prolific, excellent keeping qualities, good foliage and stem. Scored 85 in 1930.....	7.50	3.75
GROVER WHALEN (F.D.) Fine autumn color of rich bronze and orange. Very attractive both in the garden and show room. Prolific bloomer with excellent stems. Dark green foliage almost entirely exempt from insects. Just full of substance, being one of our best keeping dahlias to date. No roots	—	1.00
GALLI CURCI (I.D.) A strong semi-dwarf grower, producing large, deep blooms in abundance on stiff stems. Brilliant salmon-orange with gold suffusion. Admired wherever shown.....	2.00	1.00
GOLDEN SONNE (C.) Clear golden yellow shading to a soft salmon rose. A prize winner wherever shown. Always an abundance of bloom. No roots.	—	.50
GOOD-NIGHT (I.D.) The best dark dahlia we have had the pleasure of growing to date. Color is an ox-blood red shaded maroon. The dahlia without a fault. Plenty of size, stems, form and good keeping qualities. Good throughout season. No roots.	—	2.50
HELEN IVINS (F.D.) A deep orchid, with immense size, good stems and plenty of good deep blooms the entire season. Color never fades. An asset to any garden	2.00	1.00

M.-S. EXHIBITION DAHLIAS—Continued

	Roots	Plants		Roots	Plants
JERSEY'S BEAUTY (F.D.) This is certainly a beauty. Should be in every garden. While it does not have the size of some of its "relatives" it possesses everything by which a good dahlia is judged. A soft pink with plenty of stem and good keeping qualities.....	.50	.50	vigorous, very free bloomer. A light ox-blood red with tips of petals blazed with white. The petals have a charming quilled effect near points which adds to its attractiveness.....	2.00	1.00
JERSEY'S BEACON (F.D.) One of the old favorites seen in most gardens. Chinese scarlet with lighter reverse. Good stems and continuous bloomer.....	.50	.50	NANCY SUE LANG (I.D.) Star-like flowers; red tipped gold. A wonderful combination for those who like lots of color. Bush a healthy robust grower, tough leathery foliage that is insect-resistant. Immense blooms on good stiff stems... ..	2.00	1.00
JANE CLOUGH (F.D.) Beautiful lavender-orchid on long, stiff stems. Robust grower of branching habits, and good heavy green foliage. Blooms can be grown to immense size. Has everything by which a good dahlia is judged. No roots.....	—	1.00	OMAR KHAYYAM (F.D.) Chinese red at the base of the petals shading to bright orange tipped lighter. Tall healthy grower and a very good root maker. Comes to us highly recommended. No roots	—	2.50
JOSEPHINE G. (S.C.) A lively shade of pink with edges tipped yellow. One of the very best new varieties shown this season. Has stems, good foliage, excellent habits and bloom can be grown to large size. No roots.....	—	2.50	PATRICIA ANN (F.D.) Scored 87 in 1930, Piric yellow, blending into alizerine pink. Flowering habit prolific, extra heavy bloom facing upward. An ideal stem and one hard to beat.....	10.00	5.00
JANE COWL (I.D.) Impossible to say too much about this super dahlia. Has been one of the most desired ones since its introduction. This is one that will grow under any conditions. A warm buff and old gold shadings. Immense full-centered blooms always carried high above the foliage. Profuse bloomer and excellent root maker.....	1.00	.50	QUEEN OF THE GARDEN BEAUTIFUL (F.D.) An immense primrose yellow bloom on good stiff stems. Bloom is well above the foliage and very good type for exhibition.....	2.00	1.00
KARL BONAWITZ (S.C.) The easiest growing dahlia we have had the pleasure of growing. Graceful, open growing bush with a wealth of bloom. Have counted twelve perfect blooms on a bush at one time. Color is brilliant velvety carmine. Good keeper after cut and one that will please the most critical observer. No roots.....	—	3.75	RISE SUN (F.D.) Burnt orange tipped gold at the center and on the outside petals, making it quite attractive. Not a large flower but one that will become a very valuable cut flower due to its keeping qualities	5.00	2.50
KATHLEEN NORRIS (I.D.) In our estimation this is one of the very best originations in the dahlia world to date. Immense, perfect rose-pink blooms borne on long, stiff stems. Dark green leathery foliage that is insect resistant. A real exhibition variety that scores heavily wherever shown, and will continue to do so for a long time. Excellent tuber maker and good keeper.....	4.00	2.00	ROBERT E. LEE (S.C.) A rich red that does not fade in the sun. Good form, erect stems, and free blooming. An ideal exhibition variety.....	5.00	2.50
KEMP'S VIOLET WONDER (I.D.) A good, strong grower, producing a wealth of beautiful blooms. Color naphthaline violet with an undertone of royal purple. The best of stems and a good keeper both in the garden and as a cut flower. One of the best.	3.00	1.50	ROBERT SCOTT (F.D.) A bright apricot and yellow with shades of rose. Flowers are large and deep, of good form, on excellent stems. No roots.	—	.50
KING SOLOMON (S.C.) A consistent prize winner in the orange classes. Color is orange-buff. Long twisted petals form an attractive flower. Cane stiff stems. No roots.....	—	.50	SEAL'S CALIFORNIA (I.D.) Bright golden yellow at center, shading lighter toward outer petals. Held high above foliage on cane-stiff stems. A real addition to any garden.....	2.50	1.25
LA RODA (S.C.) A silver rose pink, shading lighter at the centre. Large, well shaped flowers on strong stems. An irregular formation that gives this one a very attractive appearance. Excellent keeper when cut.....	3.00	1.50	THE LEMONADE (I.D.) A beautiful lemon yellow that attracts the attention of every one entering the garden. Large, heavy bloom carried well above the foliage on cane-stiff stems. One of the best yellows grown today.....	1.00	.50
LAVINIA BROOMALL (C.) One of the most unusual in form that we have seen. It attracts immediate attention wherever shown. An asset to any collection. Profuse bloomer, holding immense flowers high on long stiff stems. Color is light orange-yellow to capucine yellow, shaded coral pink. Believe it will be liked by everyone who sees it	5.00	2.50	THE WORLD (F.D.) A brilliant garnet overlaid with silver shadings on edges of petals. Strong erect grower with immense blooms. An attractive variety	2.50	1.25
MINNIE EASTMAN (S.C.) Bright flame with under-shadings of deep yellow. Long, slender, stiff stems and a wealth of gorgeous blooms entire season. Just another that cannot be omitted from any collection	2.00	1.00	THOS. A. EDISON (F.D.) A dahlia in a class by itself. A royal purple with no apparent shadings. Stag-horn shaped petals give this flower an odd but pleasing appearance. Strong, open grower with insect-resistant foliage. Stems are good, holding numerous large blooms upright at all times	2.00	1.00
MRS. A. B. SEAL (I.D.) One of the "finds" of the dahlia world. Color, old rose without shadings. Strong and upright grower, attaining the height of 6 feet, and seems to have absolutely no faults. An aristocrat and one that we recommend without reservations	4.00	2.00	TREASURE ISLAND (F.D.) Color, bright apricot with gold and rose suffusions. Strong, rapid grower, producing large well shaped blooms on long stiff stems. A regular prize winner wherever shown. Plenty of substance makes this one an ideal cut flower.....	2.50	1.25
MONMOUTH CHAMPION (F.D.) Brilliant orange-flame. Good, robust grower and profuse bloomer. Always plenty of flowers on cane-stiff stems.....	3.00	1.50	WATCHUNG SUNRISE (F.D.) A sturdy upright grower, producing large, well shaped blooms on long stiff stems. One of the very best grown. A dahlia that will grow under most any conditions. Color, golden suffused pink. Petals fold back to the stems, sometimes resembling a large ball....	2.00	1.00
MY IRENE (I.D.) Color is pink shading to a pale yellow towards center. Flowers borne on long stiff stems, and an abundance of bloom entire season	2.00	1.00	W. H. T. (F.D.) A rich, old rose or begonia rose with mauve shadings on the reverse of petals. Tall, robust grower with strong stems. Petals are thick and of great substance, opening to back of stem. One of the very best.....	5.00	2.50
MEADOWBROOK (F.D.) Scored 87 at the Trial Grounds in 1929. Color light mallow purple with edges of mallow pink. Excellent flowering habit, can be grown to large size, on long cane-like stems. Leathery foliage. Won first in the open-to-all class at the New York show in 1931 as best in the formal decoratives. Would not be surprised if it would be on Hart's Honor Roll.....	10.00	5.00	JEAN CHAZOT (S.C.) Golden bronze with nasturtium red suffusion; a strong and profuse bloomer. No plants .....	.25	—
NEW GLORY (S.C.) This new creation won several prizes on the Pacific Coast in keen competition in 1930. It is large, standing on a long, stiff stem,			JEAN KEKE (F.D.) Pure white, of fine form, on excellent stems. A profuse bloomer. No plants..	.25	—
			MRS. I. de VER WARNER (F.D.) Very large, mauve pink. Good form on long stiff stem. No plants .....	.25	—
			PRIDE OF CALIFORNIA (F.D.) Deep red blooms on long stiff stem. One of the old favorites. No plants .....	.25	—
			SANHICAN'S BLUEBIRD (I.D.) A pleasing variety with outer petals of bright violet blue while the center petals retain the violet tint. No plants....	.25	—

Select Pompon Varieties

AMBER QUEEN (P.) Fine amber blooms of good form .....	.25	.25
JOHNNY (P.) Bright vermillion red. Profuse bloomer .....	.25	.25
LITTLE DAVID (P.) Bronzy orange. A good one.	.25	.25
LITTLE EDITH (P.) Yellow, tipped scarlet. Of perfect formation. One of the best.....	.25	.25

M. - S. Superfine Canna Bulbs

Culture—Canna tubers should not be put into the ground until the soil has become warm. Start indoors middle of March. They commence blooming in June and continue until frost. Every shoot bears flowers and these shoots are being constantly produced throughout the blooming season.

Note—Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with plants of some varieties.

M.-S. Large Flowering Cannas

Apricot—We consider this canna of unusual merit and especially valuable. Has healthy bright green foliage growing about four feet. Color mixture of buff and salmon.

Fiery Cross—Vivid scarlet, holds up well; disease and blight resisting. Green foliage. 4 ft.

Golden Eagle—Clear golden yellow; flowers produced in large clusters, well above the green foliage. 4 ft.

Mrs. Alfred F. Conrad—Gigantic flowers borne in immense clusters; color, delightful salmon pink, a shade which becomes more brilliant as the flower develops; foliage light green. 4 feet.

Eureka—The best white variety; free bloomer; green foliage. 4 feet.

Florence Vaughan—Yellow, spotted crimson; green foliage. 4 feet.

Yellow King Humbert—A sport from King Humbert and a majestic variety, with massive foliage; flowers golden yellow, dotted red; green foliage; 4½ ft.

City of Portland—Flowers of large size on heavy trusses; color, glowing pink; profuse bloomer; green foliage. 3½ feet.

The President—This splendid new variety produces immense flowers of a rich, glowing scarlet; green foliage. 3½ feet.

BRONZE FOLIAGE VARIETIES

King Humbert—Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a center, edged with a dwarf yellow canna, or vice versa, placing it around a center of a tall yellow variety.

David Harum—Flowers intense vermilion scarlet. Bronze foliage. 3½ ft.

Wyoming—Orange chrome red; bronze foliage. 6½ feet.

All varieties: 10c each; 90c doz.; 100, \$6.00; 50 at 100 rate.

Special Offer: Any of the above Cannas not labeled 3 for 25c; 75c dozen, 100, \$5.00.



Large Flowering Canna.

Tuberose

Postpaid

Culture—One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are sure bloomers. Soaking them over night in lukewarm water promotes rapid growth.

Double Pearl—One of the most delightfully fragrant and beautiful of the summer flowering bulbs. For flowering in the open, plant about the middle of May, or as soon as the ground becomes warm. Strong flowering bulbs 50c per doz.; \$3.00 per 100.

Mexican Everblooming—This charming single pure white variety begins to flower in July and continues throughout the season, each bulb throwing from 2 to 5 flower spikes in succession. Delightfully fragrant. 10c each; 75c per doz.; \$5.00 per 100.

Variegated—This is an early single variety. White, the green leaves finely edged and striped with gold. 10c each; 75c doz.; \$5.00 per 100.



Double Pearl Tuberose.

MADERIA VINE—Heart-shaped leaves, feathery flowers, delicious fragrance. Here is what you want if a quick growth is desired. Hardy in this latitude, if protected with litter. **Roots**, 10c; 3 for 25c, postpaid.

Gentlemen:—The Dahlias which I bought from you last Spring were the finest I have ever seen.—MAMIE ROGERS, Broomes Island, Md.

Fancy-Leaved Caladiums

Most attractive Ornamental Foliage Plants of easy culture. Will do well out of doors in the open as well as in pots in a half-shaded exposure, with plenty moisture and rich humus containing soil. Also as house plant or for conservatories, or in window boxes between ferns or small palms they give a very beautiful effect.

The following nine varieties will give utmost satisfaction and are selected by specialists for our particular trade.

Orinoco—Light pink, transparent center with bright scarlet ribs, dark green edging.

Snowshower—Pure white field, veined glossy bright green, extremely showy and most attractive variety.

Sunset—Straw yellow ground with coral red and olive green blotches.



Fancy Leaved Caladium

Beethoven—Moss green, white veins and pink center.

Mephisto—Carmine center, edged dark green with carmine blotches.

Faust—Rose pink center, edged light green with rose pink blotches.

Tigridum—Green and Pink mottled with green edge, distinct pink veins.

Haldeman—Pale flesh, white veins, edged green.

Atrisanguineum—Moss green mottled and splashed white and scarlet.

Price on all varieties 30c each.

The Entire Collection (9), \$2.00 postpaid.

CALADIUM (Elephant Ear)

As center pieces of specimen in flower beds Caladiums answer well. They also make an excellent edging for a hardy bed of grass, for Ricinus and other tall growing plants. When planted in a bed alone, a border of Scarlet Sage removes the one color effect and makes a beautiful contrast. Do not plant Caladiums outdoors until after May 1st, but to get them in early growth they may be started indoors.

Monster Bulbs, 20c each; \$2.00 dozen.

For postage, add 5c each or 25c dozen.



Caladium (Elephant Ear).

Complete Culture Guide
On Small Fruit Plants
On Request.

Hardy Shrubs, Vines, and Perennial Plants

We offer a complete line of
Perennial Plants and issue a
Special Catalog—On Request

Hedges

NEW RED BARBERRY—Rich, lustrous, bronzy red foliage, changing in fall to vivid orange, scarlet and red. Similar to green leaved variety but more brilliant and effective. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. 75c each; 6 for \$4.00; 12 for \$7.50; postpaid, 85c, \$4.25, \$8.00, respectively.

JAPAN BARBERRY—Valuable as specimen plants or for hedges. Drooping yellow flowers followed by bright red berries. Foliage changes to fiery crimson in autumn. 12 to 18 inches, 25c each; 3 for 72c; 12 for \$2.40, postpaid; \$12.00 per 100 not postpaid. 18 to 24 inches, 35c each; 3 for \$1.00; \$3.50 doz., postpaid; \$20.00 per 100, not postpaid.

HONEY LOCUST HEDGE—Has fine primate light green foliage. Blooms white in Spring, has large thorns, making an impenetrable hedge. Large plants, \$1.50 doz.; postpaid \$1.75; \$8.00 per 100, not postpaid.

CALIFORNIA PRIVET—Cheaper than fences, far more beautiful. The most popular ornamental hedge plant (25 and 50 at 100 rate). Hedge plants are set 6 inches apart, viz.: a 50-foot hedge requires 100 plants. 18 to 24 inches, \$1.00 per dozen, postpaid; \$6.00 per 100, \$40.00 per 1,000, not postpaid. 30 to 36 inches, \$1.25 per dozen, postpaid; \$8.00 per 100; \$50.00 per 1,000, not postpaid.

Shrubs

BRIDAL WREATH (Spirea Van Houttei)

—Beautiful foliage at all times and a fountain of arching snow white blooms during May and June. Very popular. 2 to 3 ft. 30c; 40c postpaid. 3 to 4 ft. 75c; 85c postpaid.

BUDDLEIA, Butterfly Bush (Summer Lilac)—The long, graceful and exquisitely fragrant spikes of flowers are of a pleasing, rich, violet-rose and are produced in profusion from early June until late autumn. Splendid large plants, 2 year, 75c; postpaid 85c.

COMMON SNOWBALL BUSH—Pure white flowers in dense clusters which look like balls of snow; very attractive. Large plants 75c; postpaid 85c.

FORSYTHIA FORTUNEI (Golden Bells)—The first shrub to bloom in the spring, the pendant golden bells appearing before the leaves. 2 to 3 ft., 75c; postpaid, 85c.

HYDRANGEA PANICULATA—Perfectly hardy in all parts of the country. White flowers, turning to pink, borne on immense pyramidal panicles nearly a foot in length from July until November. Price, strong plants, 2 to 3 ft., 75c; postpaid, 85c.

HYDRANGEA ARBORESCENS—Blossoms large, pure snow-white. Blooms from early in June through August. 2 to 3 ft., 60c; postpaid, 70c.

LILAC, PURPLE—An old-time favorite that will always remain popular. Flowers fragrant. 2 to 3 ft., 75c each; 85c postpaid.

LILAC, WHITE—Identical with the purple variety excepting that the flowers are white. 2 to 3 ft., 75c each; 85c postpaid.

MOCK ORANGE (Philadelphus)—An old favorite. Flowers cup-shaped, very fragrant, pure white. 75c each; postpaid 85c.

PINK BUSH HONEYSUCKLE—Beautiful pink blossoms. Very attractive. Blooms in May and June. 2 to 3 ft., 75c; postpaid 85c.

SWEET-SCENTED SHRUB—Strawberry-scented. Should be in every planting. Price, \$1.00, not postpaid.

SPIREA ANTHONY WATERER—Begins to bear flat clusters of rosy-red flowers early in spring and continues in bloom until late in autumn. 75c each; 85c postpaid.

WEIGELA—One of the most conspicuous shrubs that we cultivate; flowers either pink, red or white, dwarf, adapted to lawns or gardens. 2 to 3 ft., 75c each; postpaid, 85c.

Vines

BOSTON IVY—Most popular climbing plant for brick or stone walls, buildings, trees, fences, etc. Clings to smoothest surfaces. Strong plants, 2 to 3 ft., 75c each; 85c postpaid.

SWEET-SCENTED CLEMATIS PANICULATA—Most satisfactory climbing flowering plant, strong, rapid growth, dense, cheerful green foliage. Flowers in great profusion, creamy white color, very fragrant. 2-year, 75c; postpaid, 85c.

CLEMATIS JACKMANII—Popular, rich purple. Price, 75c; postpaid, 85c.

HARDY PURPLE WISTERIA—Vigorous, strong-growing vine, lovely, rich violet-blue flowers, deliciously sweet. 2-year 75c; postpaid 85c.

HARDY JAPANESE KUDZU VINE (Pueraria Thunbergiana), "Jack and the Bean Stalk" Vine—A vine that will grow anywhere in the best or poorest soil. Remarkable and rapid, often making a growth of 50 to 75 feet in one season. Fragrant purple flowers; invaluable for covering porches, etc. Strong plants, 75c; postpaid, 85c.

Grapes

CACO (Red)—This new red grape has the most delicious flavor and is of the highest quality of any grape ever tested. It is one of the earliest grapes in ripening. In appearance, it is the most beautiful of hardy grapes, wine red in color with abundant bloom. The berries are unusually large, bunches of good size, compact and of good form. The vines are very strong, vigorous growers, hardy, healthy and prolific. Ripens early in September.

Strong, 2-year vines, \$1.00 each; postpaid \$1.10; \$10.00 per dozen; postpaid \$10.25.

CATAWBA—The standard red grape of eastern America. The vine is vigorous, hardy, and productive. Clusters large, long, and broad. Berries of medium size, dull purplish-red with thick blooms; firm.

CONCORD—Best known and most popular variety in America. It succeeds practically everywhere. Its large black berries are borne in large bunches and, being covered with a decided bloom, they are of most attractive appearance. Of good quality.

NIAGARA—The most popular white grape, and destined to become more highly valued as time passes. Cluster large and compact; berry large, amber white with white bloom, thin skinned, tender pulp, sweet and luscious. Ripens in mid-season with Concord.

Any of the above three 2-year-old stock, 50c each; postpaid 60c; \$5.00 per dozen; postpaid \$5.25.

GRAPE PROTECTING BAGS—See page 67.

Gooseberries

Blackberries

Currants

GOOSEBERRIES—Downing Green and Houghton Pale Red. 40c each; 50c postpaid; \$3.50 per dozen; \$3.75 postpaid.

CULTIVATED BLACKBERRIES—Popular varieties. 25c each; 35c postpaid; \$2.00 per dozen; \$2.25 postpaid.

CURRANTS—Cherry, Bright Red, Fay's Prolific, Dark Red and Red Cross. 40c each; 50c postpaid; \$3.50 per doz.; \$3.75 postpaid.

Raspberries

(Extra Strong Plants)

Raspberries should be carefully staked to get large crops. We recommend that well-rotted manure or other suitable fertilizer be dug around the bushes, either in the Fall or early Spring.

Cumberland—A favorite home variety; color black.

Columbian—Fruit very large, often an inch in diameter; color purple.

St. Regis—Everbearing Raspberries. They yield their first crop of berries in June (the regular season) and yields an equally heavy crop the latter part of August, and continues bearing right up to November. Color red.

The above—30c each; 40c postpaid; \$2.00 per doz.; \$2.25 postpaid.

Fruit Trees

APPLES

McIntosh—The fruit is a deep red color, subacid in flavor; one of the best.

Baldwin—Large, round, bright red, very productive, good flavor.

Grimes Golden—Of the highest quality. Tree vigorous and productive.

York Imperial—A very popular variety.

Stayman Winesap—One of the best.

Early Harvest—Early, ripens in June. Extra strong trees, 5 to 6 ft. high.

Any of the above, \$1.00 each; doz. \$10.00.

PEARS

Bartlett—The most popular pear; ripens in September.

Seckel—Desirable for pickling and preserving. Price, same as above.

PEACHES

Crawford's Early—Large yellow with red cheek; flesh yellow, juicy and sweet. August.

Elberta—Mid-season; large yellow; very popular.

Late Crawford—Yellow, freestone; a peach of high quality; ripens last of September.

Belle of Georgia—Very early, freestone; white flesh, delicious. 5 to 6 ft. strong trees. Price same as above.

QUINCE

5 to 6 feet.....\$1.50 each

CHERRIES

Black Tartarian—The best for home garden. June.

Yellow Spanish—Wax color, very sweet. June.

Montmorency (Sour)—Light red, very acid; popular for pie making.

Any of above three, \$1.25 each; \$12.50 per doz.

PLUMS

Abundance—Amber turning to cherry color. August.

Burbank—Orange yellow, overlaid with red.

Green Gage—Yellowish green, small fruit. Any of above three, \$1.00 each; \$10.00 per doz.

Local delivery and express only—no freight shipments.

For best results, fruit trees should be sprayed three to four times a season.

Shade Trees

Catalpa Bungei (Umbrella Tree)—5 to 6 ft., \$4.00.

Dogwood (White)—5 to 6 ft., \$3.50.

Dogwood (Red)—2 to 3 ft., \$5.00.

Elm, American—3 to 10 ft., \$2.50.

Maple, Norway—3 to 10 ft., \$4.00.

Maple, Red—8 to 10 ft., \$4.00.

Maple, Silver—8 to 10 ft., \$2.50.

Maple, Sugar—8 to 10 ft., \$3.50.

Magnolia, Pink—3 ft., \$3.50.

Oriental Plane—7 to 8 ft., \$1.75.

Peach, Double Flowering—4 to 5 ft. \$2.00.

Poplar, Carolina and Lombardy—8 to 10 ft., each \$1.50.

Poplar, Tulip—8 to 10 ft., \$3.00.

Willow, Golden and Weeping—8 to 10 ft., \$2.50 each.

M-S Selected Quality Strawberry Plants NEW AND IMPROVED VARIETIES

Freshly Dug, Properly Trimmed and Packed to Reach You Safely

COMPLETE CULTURE GUIDE On Strawberries and Small Fruit Plants On Request

Prices on any of the following varieties, 50c dozen; 75c for 25; \$1.25 for 50; \$1.75 per 100 postpaid; \$10.00 per 1000, F. O. B. Baltimore, Md.

Extra Early Varieties

BLAKEMORE

Perfect Flowering

Said to be a cross between Premier and Missionary. In plant growth it resembles the Missionary very much, being a strong grower of small size plants. The fruit is bright red, shading to a darker red when thoroughly ripe. Size medium, of a round to conical shape. Red to the center without green tips. Flavor excellent and very firm.



PREMIER

No other variety on our list deserves the Medal of Honor as does this variety. We can only say that for an early berry it has no equal, and goes unchallenged as the most profitable early variety. A plant that will double your yield and give a profit that will be hard to equal in any other crop.

Medium Early Varieties

ABERDEEN

Perfect Flowering

A big money-maker for the market gardener. In productiveness it led all other varieties.

The size is medium to large, averaging about same as Premier, very firm, the color a rich bright red of uniform size. The fruiting season lasting about three weeks beginning a few days later than Premier. A mighty fine hardy plant to grow. In Pennsylvania it ranked first, Premier second, and Wm. Belt third.

DR. BURRILL

An improvement on Senator Dunlap, has been grown as a main crop variety in all parts of the country, will produce a full crop on a wider range of soil than any other variety. A heavy bearer of large uniformly shaped berries of a beautiful dark red color, excellent quality.

Medium Late Varieties

AROMA

Widely grown throughout the country as the standard medium late variety. A sure cropper. Produces large quantities of berries uniformly round in shape and deep glossy red in color, very firm, an ideal shipper, quality of the best.

GIBSON

One of the best, produces two to four fruit stems on each plant, making it a heavy yielder. Fruit of fine quality, texture and flavor. Excellent for table use, canning or market.

BIG JOE

BIG JOE has been the leading medium late strawberry in the eastern half of the country, and has produced record-breaking crops wherever grown. In size and productiveness BIG JOE is second to but very few varieties, always bringing top price on the market. It is free from disease, such as rust or leaf spot, and a great money maker for most growers. Likes a mellow springy soil.

Very Late Varieties

WM. BELT

A very large dark red berry of good quality, extremely productive, setting just enough runners to make a good fruiting row. One of the best late varieties.

LUPTON

A very large handsome berry and an excellent shipper. Compares in size with Chesapeake. Very attractive in appearance and a good seller on all markets. Makes plenty of strong vigorous plants. Not quite as productive as Chesapeake, but will hold size longer and nearly every berry a good perfect one.

CHESAPEAKE

One of the cleanest, healthiest plants on the list. It is simply delicious in flavor, of a beautiful rich glossy red, berries very large, firm enough to be classed a good shipper and an enormous yielder.

GANDY

GANDY is a very late variety and well known to most growers. Excellent quality. Very firm, and classed as one of the best shippers on the list. Gandy must be planted on low springy soil to do its best. When conditions are right Gandy is a valuable variety, as it has size, quality and appearance.



Use GATOR HIDE MULCH PAPER on your berry plants this season. In the above illustration are two strawberry plants of the same age—Note development of mulched plant at right as compared with unmulched plant at left.

For prices and sizes on MULCH PAPER, see page 46.

Everbearing Varieties

MASTODON

The largest and best of all the everbearing varieties, delicious flavor, very attractive and a good seller on roadside markets.

PROGRESSIVE

Was the first real everbearing strawberry; fruit is of medium size and very good quality. A wonderful berry for the home garden.

Prices, 75c dozen; \$1.00 for 25; \$1.75 for 50; \$3.00 per 100, postpaid; \$17.50 per 1000, F. O. B. Baltimore.

Earthenware Flower Pots

Sent by Express
and Freight Only.
Packing at Cost.



	Each.	Dozen.	100.
2 in.	\$0.02½	\$0.20	\$1.25
2½ in. ....	.03	.25	1.75
3 in. ....	.04	.30	2.00
4 in. ....	.05	.45	3.00
5 in. ....	.07	.75	5.25
6 in. ....	.10	1.10	7.50
7 in. ....	.16	1.75	13.50
8 in. ....	.25	2.50	18.50
9 in. ....	.40	3.75	27.50
10 in. ....	.50	5.00	35.00
12 in. ....	.90	9.50	70.00
14 in.	1.60	16.00	125.00
16 in.	3.00		

BULB PANS

Size.	Each.	Doz.	100.	Size.	Each.	Doz.	100.
4 inch....	\$0.05	\$ 0.45	\$ 3.00	8 inch...	\$0.30	\$ 2.75	\$20.00
5 inch....	.07	.75	5.25	9 inch...	.40	3.75	29.00
6 inch....	.12	1.25	7.75	10 inch...	.55	5.50	37.50
7 inch....	.18	2.00	15.00	12 inch...	1.00	11.00	82.50

EARTHENWARE SAUCERS

Each.		Doz.		Each.		Doz.		Each.		Doz.	
4''.....	\$0.04	\$0.40	7''.....	\$0.10	\$1.00	10''.....	\$0.18	\$1.75			
5''.....	.06	.50	8''.....	.12	1.25	12''.....	.30	3.00			
6''.....	.07	.65	9''.....	.15	1.50	14''.....	.40	4.00			

Plantray

Unbreakable Flower Pot Saucer

Used under flower pots, jardinières and vases, replacing undesirable plates. Protects surfaces from dampness, scratches, and ringmarks. Preserves pottery. Ventilated on both sides. Use one under every plant for beauty and economy.

Size.	Each.	Doz.	100.	Per Dozen.
4 inch.....	15c	(postpaid 20c)	\$1.50	(postpaid \$1.60)
6 inch.....	25c	(postpaid 30c)	2.50	(postpaid 2.60)
9 inch.....	40c	(postpaid 47c)	4.00	(postpaid 4.18)

Bird's IMPROVED NEPONSET Flower Pots



Extensively used for shipping plants, starting seeds and seedlings.

	Doz.	100.	1,000.		Doz.	100.	1,000.
2 inch.....	\$0.07	\$0.45	\$3.50	4 inch.....	\$0.25	\$1.25	\$9.00
2½ inch....	.08	.50	3.75	5 inch.....	.30	1.75	14.00
3 inch.....	.10	.60	4.25	6 inch.....	.40	2.50	18.50
3½ inch....	.15	.70	5.75	7 inch.....	.50	3.25	23.00
4 inch.....	.20	1.00	7.25				

Dozen and 100 lots, postpaid; 1,000 lots, add 25c.

NEPONSET BLACK FLOWER POTS

These are made in the same form as the familiar Neponset Red Paper Pot, but the paper has been specially treated with a water-proofing saturation. This treatment gives the paper peculiar properties which are extremely desirable for growing young plants. This makes it possible to take advantage of the full growing period of young plants without retarding root growth. Made in the following sizes:

	Doz.	100.	1,000.
2½ inch	\$0.10	\$0.65	\$5.00
3 inch .....	.20	.85	6.75
4 inch .....	.30	1.40	11.00



N. Y. Style Cedar Tubs

The New York Style tree tubs are made of seasoned selected Virginia white cedar, and are trimmed with specially designed metal feet, extra heavy flat steel hoops and metal handles. These tubs are painted green. Hoops, handles and feet trimmed black.



New York Style.

	Top Diameter	Bottom Diameter	Depth	Price Each.	Weight Each Pounds.
No. 1	12	9½	10½	\$2.15	9
No. 2	13	10½	12½	2.80	13
No. 3	14½	12 7/16	14½	3.45	15
No. 3½	16½	14½	15½	4.55	18
No. 4	19 7/16	17½	16½	4.90	21
No. 5	22 7/16	20½	18½	6.40	26

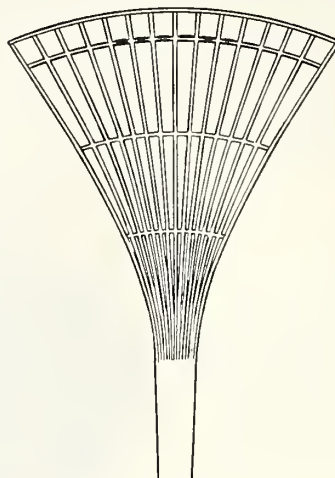
The Richmond Style—Similar to the N. Y. style, but does not have feet nor handles.

	Inside Top Diameter	Inside Bottom Diameter	Inside Depth	Price Each.	Weight Each Pounds.
No. 5	10	7½	9	\$.75	3
No. 7	12	9	11	1.15	4½
No. 9	14	11	13	1.60	7
No. 11	16	12½	15	2.00	9

If wanted by Parcel Post include postage.

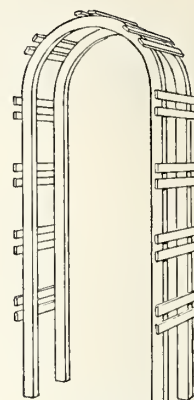
Unadilla Garden Furniture

ALL FINISHED IN BEST OUTDOOR PAINT
Catalogue on Request.



No. 55

Rose Trellis



No. 80

Rose Arch

No. 80 Rose Arch has a depth of 2 ft. with a width of 4 ft. Price, \$11.50.

Trellis No. 77—8 ft. by 24 ins. wide, top and bottom to be attached on side of house or porch, \$1.75.

Rose Trellis No. 55—6 feet high, over all, with 10 ribs and top spread of 4 feet. Sturdy construction. Price, 4.50.

Fan Trellis No. 37—6 feet high, over all, with 5 ribs and top spread of 4 feet. Price, \$1.50.

GATOR-HIDE Mulch Paper



Bigger Crop - Better Crop - Earlier Crop

NO WEEDING

Gator-Hide Mulch Paper stimulates plant growth by increasing the temperature of the soil, by conserving moisture in the soil and by eliminating the weeds that usually steal plant foods no matter how often the grower goes through the back-breaking process of weeding.

Gator-Hide under thousands of tests has proved these four things:

1. That it grows bigger crops.
2. That it grows better, sturdier, higher quality crops.

3. That it brings practically all crops to maturity earlier.
4. That weeds cannot come up in the soil that it covers.

Use Gator-Hide Mulch Paper this year. It's the new way of growing things—the better way—the easier way.

PRICES

Type A (light weight)

Width.	Length.	Sq. Ft.	Per Roll
18 in.	900 ft.	1350	\$3.00
36 in.	900 ft.	2700	6.00

Type B (heavy weight)

Width.	Length.	Sq. Ft.	Per Roll
18 in.	450 ft.	675	\$3.00
36 in.	450 ft.	1350	6.00

Discounts on large orders on quotation.

Tripl Rolls containing 45 feet, Type B Mulch Paper, 18 inches wide. Price, 65c (postpaid 76c).

Pot and Tree Labels—All Painted

We do not furnish plain labels, they are not satisfactory. Markings are too easy obliterated.

Width.	100	P. P. Wt.	500	1000	P. P. W.	per 1000
4"x½" Pot.	\$0.30	½ lb.	\$1.15	\$2.00	3 lbs.	
5"x½" Pot.	.35	½ lb.	1.25	2.20	4 lbs.	
6"x½" Pot.	.40	½ lb.	1.50	2.50	5 lbs.	
10"x½" Pot.	.75	1 lb.	3.00	5.00	10 lbs.	
12"x½" Pot.	.90	2 lb.	3.50	6.00	12 lbs.	
8"x½" Garden.	.75	2 lb.	3.50	6.00	9 lbs.	
10"x½" Garden.	1.00	2 lb.	4.00	7.20	10 lbs.	
12"x1½" Garden.	1.25	3 lb.	5.50	10.00	12 lbs.	
3½" Cop. Wire Tree.	.35	½ lb.	1.30	2.30	4 lbs.	

Haas Life Time Flower Marker

Fig. 1.

Copper construction celluloid inset, time support made of pressed steel, will not rust, 18 inches high over all. Support not shown in cut. Will last indefinitely.

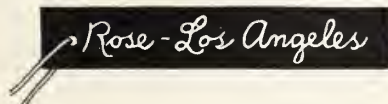
\$1.50 dozen, postpaid \$1.58; \$10.00 per 100, postpaid \$10.16. Fig. 1.

Simplex

WEATHERPROOF LABELS

are permanent and have been extensively used more than 16 years for identifying Roses, Dahlias, Gladioli, etc. They are made of celluloid, color dark green.

The labels are easily marked with a sharp pointed steel stylus which cuts through to the white base producing a very beautiful effect of white lettering on a dark green background. These attractive labels are not conspicuous but the writing is unusually distinct and permanent.



Prices, including Copper Wire for Attaching and Steel Stylus for Marking:

No. 31—3 x ½ inches.....\$2.50 per hundred, postpaid

SIMPLEX GREEN WEATHERPROOF ROCK GARDEN LABELS
These labels are designed especially for use in Rock Gardens. They are for use where the wired or stake type of labels are not appropriate. The dark green color renders the label itself inconspicuous among closely planted, small or low growing varieties, but the white lettering is very clear and easy to read.

Prices, including Steel Stylus for Marking:

No. 51—4 x ½ inches.....\$3.00 per 100 postpaid

Simplex Steel Stylus.....20c each postpaid



Timesaver Plant Support

A long lived, low priced, completely adjustable support, all metal parts being galvanized; tie end is green, can be adjusted as to height and size of loop almost instantly and is practically hidden by the foliage of the plant it supports. There is a proper size for anything in your garden needing support.

justed as to height and size of loop almost instantly and is practically hidden by the foliage of the plant it supports. There is a proper size for anything in your garden needing support.

No. 2-3 ft.....Per doz. \$1.15, postpaid \$1.25
No. 3-A-4 ft.....\$2.20, postpaid \$2.35
No. 4-5 ft.....\$2.75, postpaid \$2.95

Adjusto Plant Support

Adjusto Plant Supports comprise a square sturdy hardwood stake equipped with a patented adjustable wire loop. Price, per dozen, 3 ft., \$2.10; 4 ft., \$2.40; 5 ft., \$2.70; 6 ft., \$3.00. For postage, add 15c, 25c, 30c and 40c.

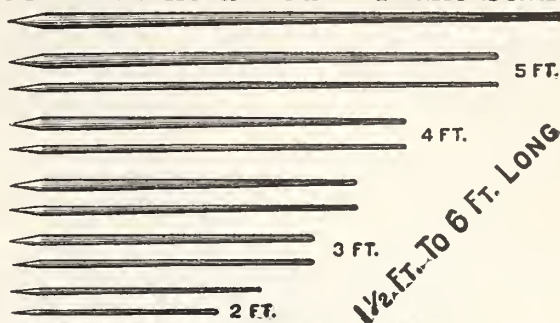
Stakes Without Loops—3 ft., 90c per doz.; 4 ft., \$1.20; 5 ft., \$1.50; 6 ft., \$1.80. For postage, add 10c, 20c, 25c, and 35c.

Extra Wire Loops, \$1.20 per dozen, postpaid \$1.30.

Garden Reels

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time. Price, \$1.25; postpaid, \$1.35.

Green Painted Round Plant Stakes



HEAVY PLANT STAKES

3 ft., Heavy or Dahlia...Each 12c Per doz. \$1.15 Per 100 \$ 8.60
4 ft., Heavy or Dahlia...Each 15c Per doz. \$1.55 Per 100 \$11.40
5 ft., Heavy or Dahlia...Each 20c Per doz. \$2.25 Per 100 \$14.60
6 ft., Heavy or Dahlia...Each 25c Per doz. \$2.50 Per 100 \$17.90
P. P. Prices Doz.: 3 ft. 10c; 4 ft. 12c; 5 ft. 14c; 6 ft. 16c extra.

LIGHT PLANT STAKES

1½ ft., Light, each 3c; dozen 25c; 100 \$1.50.
2 ft., Light, each 4c; dozen 40c; 100 \$2.80.
2½ ft., Light, each 6c; dozen 60c; 100 \$4.10.
3 ft., Light, each 8c; dozen 75c; 100 \$5.40.
Parcel Post Prices per Dozen: 1½ ft. 7c; 2 ft. 7c; 2½ ft. 8c; 3 ft. 9c extra.

Bamboo Plant Stakes

	Doz.	P.P.	100.	P.P.	Not P.P.
2 ft., painted green....	\$0.15	\$0.20	\$0.75	\$0.83	\$ 3.50
3 ft., painted green....	.20	.27	1.00	1.11	6.00
4 ft., painted green....	.25	.32	1.25	1.37	7.50
5 ft., painted green....	.30	.37	1.50	1.63	8.50
6 ft., not painted.....	.35	.43	1.75	1.92	10.00
6 ft., not painted, tonkin, for dahlias.	Doz. \$1.00, postpaid \$1.10;				
100, \$9.00, not postpaid.					
5 ft., not painted, tonkin, for dahlias.	Doz. 75c, postpaid 86c;				
100, \$5.00, not postpaid.					
4 ft., not painted, tonkin, for dahlias.	Doz. 60c, postpaid 69c;				
100, \$3.50, not postpaid.					

Pointed Floral or Hyacinth Stakes

Used for Staking Hyacinths, Tulips, Etc. Dyed Green.

Price: 12-inch, 7c doz.; 35c, 100; \$2.00, 1,000; 18-inch, 8c doz.; 50c per 100; \$3.00 per 1,000.

"LIGHTNING" WIRE PLANT TIE—

For fastening plants to stakes, either wire or wood; can be used many times. 1,000 ties in a pkg. \$2.50, postpaid \$2.57.

100 ties in a pkg. 35c, postpaid 40c.

EUREKA STAKE FASTENERS— 1,000, \$3.00, postpaid \$3.08; 100, 40c, postpaid 45c.

Twines, Etc.

Jute Twine—3-ply, 15c per ball, postpaid 20c.

Binder Twine—Standard; ball, 5 lbs., 75c.

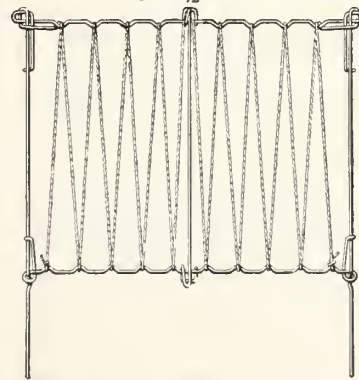
Podder Twine, or Tarred Sisal—Lb. 15c. Quantity prices furnished on application.

Flow Lines—Per pair, Sisal, 60c, postpaid 68c.

Garden Line—150 feet of good cotton line, 35c, postpaid 40c.

Cemetery Bouquet Holders

5 x 9½ inches. Price 25c, postpaid 30c.



Timesaver Sweet Pea and Vine Trellis

Dimensions 5 feet by 5 feet over all.

Stands about 4 feet above ground when placed.

Frame made of ¼-inch galvanized cold drawn steel. Green non-fade rope center.

Easily assembled in very few minutes without use of bolts, screws or any tools. Various parts snap solidly together and center is then strung on the frame. Very quickly taken apart again, if desired, for storage purposes.

Full directions for setting up accompany the trellis, which comes, packed one in a package or carton. Price, \$2.25 each, postpaid \$2.36.

Poisonous Insecticides
Cannot Be Sent by Mail.

INSECT DESTROYERS

Articles marked thus *
are poison.

*Antrol

Ants Destroyed in Their Nests—New method "gets" them at their source—Safe, Permanent, Effective. Prices: Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c; Antrol extra containers (each), 15c; Antrol syrup, 4 oz. bottle, 45c; pints, 95c; gallon, \$3.75.

ANTROL ANT and Roach Powder—This improved fast killing powder is recommended for temporary quick relief, especially in apartments, summer homes, camps, etc. Price, 20c per 2½-oz. package, postpaid 27c.

ANTI-ANT—See page 49.

***ARSENATE OF LEAD**—See page 52.

***ARSENATE OF ZINC**—1 lb. 30c; 4 lbs. \$1.00; 100 lbs. \$22.00.

***BLACK LEAF 40**—Per 1 oz. bottle 35c; \$1.00 per 5 oz.; 1 lb. \$2.25; 2 lbs. \$3.35; 5 lbs. \$6.25; 10 lbs. \$10.75.

***BLUE STONE**—5 lbs. 75c; 10 lbs. \$1.25; 50 lbs. \$5.00; 100 lbs. \$9.00.

***BORDEAUX ARSENATE**—See page 52.

***BORDEAUX MIXTURE**—See page 52.

***CALCIDE**—See page 52.

***COPPER LIME DUST**—See page 52.

***CYANOGENAS "G" FUMIGANT**—1 lb. 75c; 5 lbs. \$3.00.

***CYANOGENAS—A dust**—See page 81.

FISH OIL SOAP—35c per lb, postpaid 42c; 5 lbs. \$1.25, postpaid \$1.36; 10 lbs. \$2.00, postpaid \$2.16.

FISH OIL SOAP (Semi-Liquid)—35c lb., postpaid 42c; 5 lbs. \$1.25, postpaid \$1.36.

GRAPE DUST—For mildew and blight. Per 5 lbs. 75c, postpaid 86c.

***HELLEBORE**—Per ¼ lb. 25c; 40c per ½ lb.; 1 lb. 70c; \$3.00 per 5 lbs.

***KAYLOX**—Is an insecticide and fungicide; very effective against all leaf eating insects.

½ Pound	\$0.30	5 Pounds	\$2.50
1 Pound .....	.55	10 Pounds	4.50

KAYSO—A combined casein spreader and adhesive to be added to spraying material. 2 lbs. 50c, postpaid 58c; 10 lbs. \$2.10, postpaid \$2.26; 50 lbs. \$9.50, postpaid \$10.00; 100 lbs. \$18.00.

LEMON OIL INSECTICIDE—½ pt. 35c, postpaid 42c; 1 pt. 60c, postpaid 67c; 1 qt. \$1.00, postpaid \$1.09; ½ gal. \$1.75, postpaid \$1.86; 1 gal. \$3.00, postpaid \$3.16. \$12.00 per 5 gals.; 10 gals. \$22.50.

***LIME AND SULPHUR (Dry and Liquid)**—See page 51.

***MAG-O-TITE**—Protects crops against the ravages of the root maggot and other garden pests; also eradicates earth worms from lawns and putting greens. 5 lbs. \$1.50.

MEXOGEN—See page 49.

***NICO-FUME (Liquid)**—\$2.00 per lb.; 4 lbs. \$5.85; 8 lbs. \$10.85; 40-pound drum, \$52.50.

NICO-FUME TOBACCO PAPER—Per box 24 sheets, \$1.25, postpaid \$1.32; \$4.75 per 144 sheets, postpaid \$4.87; 288 sheets, \$8.25, postpaid \$8.42.

NICO-FUME TOBACCO POWDER—1 lb. \$1.00, postpaid \$1.08; 5 lbs. \$3.50, postpaid \$3.56; 10 lbs. \$6.15, postpaid \$6.26.

***PARA DICHLOOROBENZENE or CRYSTAL GAS**—Controls peach borers, use in June and September, 1 oz. to each tree. 1 lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50; 25 lbs. \$7.50; 50 lbs. \$14.00.

***PARIS GREEN**—Per ¼ lb. 15c; 1 lb. 40c; 2 lbs. 75c; 5 lbs. \$1.75; 14-lb. kits \$4.50. Price subject to change.

***PYROX**—See page 52.

RID-O-BUG—A new pyrethrum insect spray—non-poisonous, very effective. 1½ oz. bottle 50c, postpaid 55c.

SLUG SHOT—See page 51.

SULPHUR (Flowers)—1 lb. 15c, postpaid 22c; 5 lbs. 60c, postpaid 72c; 10 lbs. \$1.00, postpaid \$1.17; 25 lbs. \$2.25, postpaid \$2.57; 100 lbs. \$6.00.

SUNOCO SPRAY OIL, Self Emulsifying in any water. Will not freeze or deteriorate from season to season. Used for dormant spraying, delayed dormant spraying and summer spraying. Unequaled as a spreader and sticker for foliage sprays, maintaining an effective coating on foliage for weeks. Price, \$1.25 per gal.; 5 gals. \$5.00; 15 gals. \$9.30; 30 gals. \$15.90; 50 gals. \$23.

SULPHO TOBACCO SOAP—Destroys insects on plants and animals. Pkt. 25c; postpaid, 30c; 1 lb. 40c; postpaid, 48c.

TOBACCO DUST (Special Dusting or Fumigating)—1 lb. 10c, postpaid 17c; 3 lbs. 25c, postpaid 35c; 10 lbs. 60c, postpaid 78c; 20 lbs. \$1.00, postpaid \$1.26; 100 lbs. \$4.50.

TOBACCO STEMS—Per lb. 5c, postpaid 12c; 50 lbs. \$1.75; 100 lbs. \$3.00.

TREE TANGLEFOOT—1 lb. 60c, postpaid 68c; 5 lbs. \$2.75, postpaid \$2.87; 10 lbs. \$5.25, postpaid \$5.42. 25 lbs. \$11.00.

TREE DRESSING, FRAM'S—See page 51.

*Snarol

Quickly Kills Garden Pests—Science provides new, safe method that does the work without fuss. Snails, cutworms, slugs, grasshoppers, sowbugs, earwigs, etc., are exterminated. 1½-lb. package 45c; 4-lb. package 95c; 15-lb. package \$3.50. Special prices quoted on 50-pound bags.



Scalecide

A BETTER DORMANT SPRAY
A Miscible Oil Product
Of the Highest Quality
Costs more per gallon, but less
per tree

The oldest, safest and best known spray for fruit trees, shrubs, and vines. Used by leading fruit growers. Pleasant to use. Controls scale (fall or spring), aphids and pear thrips without Nicotine (delayed dormant). Controls red mite and leaf roller (delayed dormant). Controls psylla. Guaranteed to make a better orchard than lime sulfur, delayed dormant one to 15. Prices—1 qt. 70c, postpaid 80c; 1 gal. \$1.60, postpaid \$1.76; 5 gals. \$6.00; 10 gals. \$10.00; 15 gals. \$13.50; 30 gals. \$22.50; 50 gals. \$28.00. Refund on return of 15, 30 and 50-gallon drums.

SULFOCID

A Better Summer Spray

Is truly a "better summer spray" for fruits, vegetables and flowers. Controls fungus diseases such as scab, brown spot and the like. It gives the foliage a rich green color, and increases the sheen and luster of the fruit. It is a liquid without sediment, and will not clog the nozzles. It costs no more than home made bordeaux. Dilutes one gallon to 200 gallons. 1 pint 70c, postpaid 80c; 1 quart \$1.00, postpaid \$1.10; 1 gallon \$2.75, postpaid \$2.95; 5 gals. \$8.75; 10 gals. \$15.00; 15 gals. \$21.00; 30 gals. \$39.00; 50 gals. \$60.00. Drums not returnable.

NURSERY VOLCK

Is one of the most powerful insecticides known. Kills Aphids, Red Spider, Mealy Bug, Scale, Caterpillars and most all insects, and prevents mildew and rust. Volck does not burn; it is safe to use. Highly recommended to florists. Send for special circular. Price, ½ pt. 50c, postpaid 57c; 1 pt. 75c, postpaid 82c; 1 qt. \$1.00, postpaid \$1.10; 1 gal. \$3.00, postpaid \$3.16; 5 gals. \$12.50; 14 gals. \$25.00; 28 gals. \$40.00.

Why Bugs Leave Home



Wilson's O. K. Plant Spray

The Insecticide Supreme

For 20 years the leading insecticide of America, for inside and outside spraying. For aphids, thrip, mealy bug, scale, rose bugs and many other insects. ½ pint 40c, postpaid 48c; 1 quart \$1.00, postpaid \$1.10; 1 gal. \$3.00, postpaid \$3.16; 5 gals. \$12.00.

Evergreen

Highly effective against practically all plant insects both chewing and sucking types (scale insects excepted) including aphids, thrip, leaf hopper, cut worm, canker or currant worm, tarnished plant bug (Aster Beetle), leaf roller, cucumber beetle, cabbage worm, asparagus beetle, tent caterpillar, rose chafer and slug, squash beetle, Mexican Bean Beetle, Japanese beetle, ants, black fly, and many others.

Non-Poisonous—Harmless to humans, livestock, birds and pets. Kills only insects. Safe to use and have in home.

Price: 1 oz. bottle 35c postpaid 40c; 6 oz. bottle \$1.00, postpaid \$1.07; 16 oz. bottle \$2.00, postpaid \$2.08; 32 oz. tin \$3.50, postpaid \$3.59; 1 gal. tin \$11.50, postpaid \$11.67.



GROW BETTER ROSES

Aids That Assure Success With ROSES and Other Flowers

USE THE COMPLETE TREATMENT

FOR LEAF CHEWING INSECTS

A remarkably effective insecticide that rids your roses and other plants of leaf chewing insects, including caterpillars, slug worms, Japanese beetles and many blights. Use alternately as a companion spray with Fungtrogen; both carry their own spreader; only water is required. Makes 60 times its volume.

4 ounces \$.60
 ½ pint 1.00
 Pint 1.75
 Quart \$2.75
 Gallon 8.00
 Not Mailable.



Worm eating leaf.



Showing Aphids at work.

trogen is also a good plant disinfectant. Splendid for house plants.
 2 ounces...\$.50, postpaid \$.60
 ½ pound... 1.25, postpaid 1.40
 2 lbs....\$ 3.50, postpaid \$3.75
 12 lbs.... 15.00 by express

FOR APHIS

FOR PLANT LICE

This non-poisonous spray destroys all traces of these pests, outdoors or under glass, in two or three applications, for roses, chrysanthemums, golden glow and all others subject to plant lice. Will not discolor the foliage. Aphistrogen is complete. No soap required—simply mix with water and use. Aphistrogen is also a good plant disinfectant. Splendid for house plants.



SPRING-SUMMER GROUND DRESSING AND SOIL STABILIZER

A remarkable Plant Food, soil stabilizer and ground dressing for your roses. Feroegen should be cultivated into your rose beds in the early spring and summer. It supplies vital chemical elements and stimulates to vigorous root action and strong growth. In convenient powdered form. Feroegen reinforces stable manure.

Prices By P. P.

1 pound.....\$.75 \$.90
 2 pounds..... 1.25 1.50
 5 pounds..... 2.75 3.10
 10 pounds..... 4.75 5.25
 25 pounds..... \$11.00
 (By Express or Freight)



Conquers Mildew and Black Spot

A successful fungicide, highly concentrated, that mixes readily with water and is easy to apply. Harmless to foliage or blooms. Invisible. The noted Rosenbluth formula combined with the nitrogen fertilizing product known as Hortogen, that results in increased plant vigor, superb foliage, and amazing blooms.

Fungtrogen is a highly scientific and effective preventive of most fungous diseases of the rose and works equally as well on other flowering plants, such as hollyhocks, snapdragons, geraniums, phlox, sweet peas, carnations, etc. For use outdoors and under glass. Fungtrogen carries its own spreader, simply mix with water. Makes 60 times its volume—economical.

½ pint\$.75, postpaid \$.82
 Pint 1.25, postpaid 1.33
 Quart 2.00, postpaid 2.10
 Gallon 6.00, postpaid 6.16



AUTUMN-WINTER GROUND DRESSING AND SOIL DISINFECTANT

Terogen destroys the spores of fungi of most diseases that have fallen to the ground, as well as the larvae of most insects, including the rose pith borers, rose bugs, aphids and most beetles. Terogen also acts as a valuable fertilizer. Makes sturdy, healthy foliage and helps to prevent chlorosis. In convenient semi-powdered form.

Prices By P. P.

1 pound.....\$.75 \$.90
 2 pounds..... 1.25 1.50
 5 pounds..... 2.75 3.10
 10 pounds..... 4.75 5.25
 25 pounds..... \$11.00
 (By Express or Freight)

Other Products From These Famous Laboratories That We Recommend

ASTOGEN

A Non-Poisonous Soil Insecticide for Asters, etc.

A successful remedy, the effectiveness of which has been definitely proven beyond question. We believe this discovery to be one of far-reaching importance, and of incalculable value in the extermination of these plagues. It offers safe protection also for Columbinas, Nasturtiums, Marigolds, Snapdragons, Calendulas, Heliotropes, and many other plants. ASTOGEN acts likewise as a preventive of stem rot and yellows. ASTOGEN contains ingredients which promote root vigor, resulting in robust plant growth. It also adds humus to the soil.

It is equally valuable for the vegetable garden and house plants, as it is non-poisonous to humans, animals and birds. PRICES: 2 lbs. 75c, postpaid 85c; 5 lbs. \$1.50, postpaid \$1.62; 10 lbs. \$2.75, postpaid \$2.87; 25 lbs. \$5.00, postpaid \$5.35; 50 lbs. \$8.50, postpaid \$9.10; 100 lbs. \$15.00 F.O.B. Baltimore, Md. (10 lbs. will treat from 50 to 60 plants.)

Mologen

Eliminates Moles from your Lawn within two or three days!

NON-POISONOUS

To Humans and Pets

In Powder form. Will in no way injure soil or grass. Emits no gas. Odorless.

Prices: ½ lb. can 50c, postpaid 57c; 1½ lb. can \$1.25, postpaid \$1.34; 5 lb. can \$4.00, postpaid \$4.12.

Anti-Ant

GETS RID OF ANTS

in the household or out of doors on lawns—golf courses or wherever ants bother.

NON-POISONOUS

An odorless powder; used sparingly; works easily—quickly—effectively.

Harmless around children and pets.

Fairmount Anti-Ant is a tried and proven remedy that destroys ants.

Prices: 4 ozs. 40c, postpaid 45c; ½ lb. 65c, postpaid 73c; 1 lb. \$1.00, postpaid \$1.08; 5 lbs. \$4.85, postpaid \$4.97.

Fairmount

Weed Killer

Destroys vegetation wherever applied. One gallon makes 50 gallons of treating liquid to effectively cover 100 to 150 square yards. For driveways, tennis courts, baseball diamonds, and walks, etc. Will not stain marble or stone. For 35 years the successful weed killer.

Prices: Qt. 70c; ½ gal. can \$1.00; 1 gal. can \$1.75; 5 gal. can \$7.25; 30 gal. drum \$33.00; 55 gal. drum \$55.00. Not mailable.

Mexogen

is a highly concentrated contact spray and repellent, scientifically prepared to destroy and repel this destructive enemy of the truck gardener, which is spreading so rapidly throughout the country.

MEXOGEN destroys the larvae and eggs, as well as the adult beetle, and is an efficient repellent.

Also kills cabbage worms and many other insect pests, being especially desirable on account of its non-poisonous nature.

It cleans and tones the foliage. It is easy and pleasant to use. Requires no spreader. One quart makes 11 gallons of spray.

Prices: ½ pt. 75c, postpaid 82c; quart \$2.00, postpaid \$2.09; gallon \$6.00, postpaid \$6.16.



Pomo-Green with Nicotine

The Leaf Green ALL-IN-ONE Dust
or Spray

A single material used as a dust or a spray
to control both insects and diseases on
flowering plants and shrubs without being conspicuous on the
foliage. Highest rating given in tests conducted by American
Rose Society.

Used for Dusting or Spraying—Use Wet or Dry

WILL CONTROL

INSECTS

Rose Aphid
Nasturtium Aphid
Sweet Pea Aphid
Japanese Beetle
Leaf Roller
Tarnish Plant Bug
Leaf Beetles
Web Worm
Tent Caterpillar
Flea Beetle
White Fly
Lace Bug
Rose Midge
Red Spider
Cyclamen Mite
Mealy Bug
Countless others



DISEASES

Rose Blackspot
Rose Mildew
Lilac Mildew
Phlox Mildew
Sweet Pea Mildew
Dahlia Mildew
Zinnia Mildew
Delphinium Mildew
Hollyhock Rust
Snapdragon Rust
Carnation Rust
Chrysanthemum Rust
Leaf Spot of Box,
Clematis, etc.

And all other diseases
which are controlled
with sulphur.

Packed in 1 pound and 5 pound metal containers

Price—1 pound can.....\$0.75 } Not Mailable.
5 pound can.....3.00 }

Pomo-Green without Nicotine

DUST YOUR ROSES

and other Flowering Plants against In-
sects and Fungus Diseases Without
Making the Treatment Conspicuous



One-pound Can.

Pomo-Green is the celebrated Massey Dust
made more toxic and colored green.
Black Spot, Mildew or Chewing Insects are
bound to appear.

Pomo-Green prevents and controls these
diseases and insects quickly and effectively.
Pomo-Green is a specific for the control of
Snapdragon Rust, Carnation Rust, Sweet
Pea Mildew, Phlox Mildew, Lilac Mildew,
and many other fungus diseases of flower-
ing plants and shrubs.

Protect new growth by dusting with Pomo-
Green once each week throughout the
growing season.

1 pound can.....\$0.50 } Not Mailable
5 pound carton.....1.75 }

Pomo Dust No. 4

Prevents and cures mildew and black-
spot on Roses and other plants.

Prices: 1 lb. 35c; 5 lbs. \$1.25; 10 lbs.
\$2.25; 100 lbs. \$12.00. Not mailable.

Increase Farm Profits by Controlling Seed-Borne Diseases

SEMESAN—The chlorophenol mercury disinfectant, is for com-
bating many diseases carried on seeds, bulbs, corms, roots, or
tubers of flower, field, forage, nursery, and vegetable
crops; for prevention of seed-rotting and seedling
damping-off; also for controlling certain plant dis-
eases, as brown-patch of lawns. Applied by the con-
venient dust or liquid methods, at a cost of 1/4c to 1c
a pound of seed. Prices: 2 ozs., 50c; 1 lb. \$2.75;
5 lbs. \$13.00; 25 lbs. \$56.25.

NU-GREEN—Quickly kills brown patch
fungi and promptly restores the dis-
eased grass to a healthy condition,
especially where the turf is not in a
good state of fertility. Prices: 3 ozs.
50c; 1 lb. \$2.00; 5 lbs. \$9.00; 25 lbs.
\$37.50.

CERESAN—The ethyl mercury chlor-
ide dust disinfectant, is for the con-
trol of certain diseases carried on seed
grains and narcissus. CERESAN is
easily applied, harmless to the seed;
does not clog the drill; is not nauseat-
ing to the user. Prices: 1 lb. 75c;
5 lbs. \$3.00; 25 lbs. \$12.50.

SEMESAN JR.—The organic mercury dust disinfectant, is for
control of certain root-rots carried by seed, field and sweet corn;
also for prevention of seed rotting of early planted
corn, SEMESAN JR. is easily and quickly applied,
is harmless to the seed; and does not prevent accu-
rate planting. It costs less than 3c an acre. Prices:
4 ozs. 50c; 1 lb. \$1.75; 5 lbs. \$8.00; 25 lbs. \$31.25.

NEW IMPROVED SEMESAN BEL—The effective
organic mercury dip disinfectant, is for control of
scab and Rhizoctonia carried on seed
white potatoes. The dip treatment is
easy and quick. The special equip-
ment, extra labor, and loss of time re-
quired for soaking treatments are
eliminated by this dip method. One
pound disinfects 60 to 80 bushels of
seed at a cost of 1.5c to 3c a bushel.
Prices: 4 ozs. 50c; 1 lb. \$1.75; 5 lbs.
\$8.00; 25 lbs. \$31.25.



ALL DISINFECTANTS
LISTED ABOVE NOT
MAILABLE.

Protect Your Garden

Whether Your Garden Is Flower or Vegetable—Use

RED ARROW INSECT SPRAY

A Non-Poisonous Pyrethrum Soap Spray

Harmless to Humans and Warm-Blooded Animals but
Deadly to Insects, Including

Rose Chafers
Leaf Hoppers

Aphides
Beetles

Ants
Spiders

Thrips
Caterpillars

Soil Insects

VERY ECONOMICAL—for example, the 1 ounce bottle will make 8 gallons of a finished spray strong enough to kill most common garden pests.

EASY TO USE—You need not be an expert to obtain best results. Simply mix with water. There are no disagreeable odors or dangerous fumes. Complete directions with each package.

WILL NOT BURN OR DISCOLOR FOLIAGE

Ask for Descriptive Booklets.

PRICES POSTPAID



1 ounce size	-	-	-	-	-	-	-	-	-	\$.35
¼ pint	-	-	-	-	-	-	-	-	-	1.00
½ pint	-	-	-	-	-	-	-	-	-	1.75
1 pint	-	-	-	-	-	-	-	-	-	3.25
1 quart	-	-	-	-	-	-	-	-	-	6.00
1 gallon	-	-	-	-	-	-	-	-	-	20.00



Red "A" Soap

RED "A" SOAP is a liquid neutral potash cocoanut oil soap. It may be used with any liquid contact insecticide except those containing arsenical compounds.

Soap has long been used by entomologists both as an insecticide and as an activator and spreader for mixing with various liquid insecticides.

RED "A" SOAP is constantly liquid. It can be poured from the container while cold into the spray container and easily mixed by stirring.

Contact insecticides kill by penetrating the breathing tubes leading into the abdomen and thorax of insects.

Entomologists have determined that soap greatly increases the speed and thoroughness of penetration, thereby increasing the efficiency of the insecticide.

PRICES OF RED "A" SOAP: ½ pint (8 ozs.) 35c each; pint (16 ozs.) 60c each; quart (32 ozs.) \$1.00 each; gallon (128 ozs.) \$3.00 each, postpaid; 5 gallons, \$2.60 per gallon, f. o. b. Baltimore.

Every Worm Turns Up Its Toes
After a Dose of



Safe, Quick, Thorough, Convenient,
Economical

Reade's "ELECTRIC" Worm Eradicator has been on the market for over forty years, and it is recognized as the most effective as well as the safest material for getting rid of worms in putting greens.

"ELECTRIC" Worm Eradicator gets rid of worms in a sane, practical way, that is, by bringing them to the surface where they can be swept up. If the worms are killed in the soil, they attract ants which are a far greater nuisance and which are practically impossible to get rid of.

Each gallon of the eradicator may be diluted with 250 gallons of water, and covers 2,500 square feet. When the diluted liquid is sprinkled on the green, the worms immediately come to the surface where they die.

"ELECTRIC" Worm Eradicator can be used without any danger of injuring the turf, or poisoning the soil. The best proof of this, is the fact that it has been used year after year on hundreds of the finest golf courses throughout the world.

PRICES: 1 pint, \$1.00; 1 gallon, \$4.00; 5 gallons, \$16.25; 10 gallons, \$30.00. Not mailable.



Non-Poisonous

VERY EFFECTIVE AGAINST
ALL CHEWING INSECTS

Safe to use on Fruits and Vegetables nearly ripe.

Price: 1 lb. 20c, postpaid 27c; 5 lbs. 50c, postpaid 62c.

Revivo

Kills grubs; prevents crab grass.

REVIVO will control all grubs, and in addition will remain active for three or four years, and prevent the Japanese Beetle Grub from coming out of the ground if applied in the spring before the latter part of June or any time in the fall.

This is the most satisfactory and sure way to combat the ravages of this destructive pest—no other method has proven so effective.

Crab Grass is prevented by the application of REVIVO; chick weed, plantain, and dandelion is stunted in growth, and have a low rate of germination wherever REVIVO is used. In this respect it is a valuable addition to the Horticultural remedies, and if it had no other functions the fact that REVIVO prevents fall and crab grass would be ample reason for its existence, and most remarkable of all REVIVO fertilizes and promotes remarkable growth, and finer lawns are assured.

Price: 10 lbs. \$1.50; 25 lbs. \$3.50; 100 lbs. \$10.00; 500 lbs. \$45.00. Not mailable.

Tree Dressing

The
Life
of a
Tree

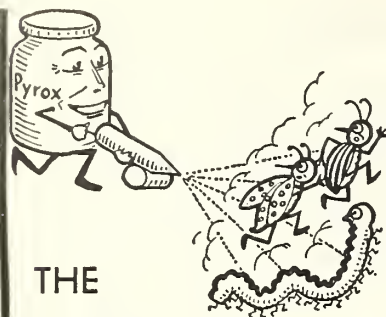


Is
a
Question
of
Care

A tree is no stronger than its weakest point, the weakest point is the cavity. Treated with FRAM'S TREE DRESSING the injured section is sterilized and water-proofed. The opening permits of a new growth of wood and bark along the margin, which gradually forms an inwardly rolling edge of natural organic strength.

Price: 1 qt. 50c, postpaid 59c; 1 gal. \$1.50, postpaid \$1.66; 5 gals. \$7.50, f. o. b. Baltimore, Md.

fight BUGS and BLIGHTS this way



THE ONE WEAPON You Need

Thirty-one varieties of bugs menace your garden. One weapon is all you need to destroy them—Nicotine Pyrox, science's latest discovery for plant protection. No more messy chemicals to mix—Nicotine Pyrox kills all common bugs and controls blight and other plant disease. Order Nicotine Pyrox today.

Simply mix

NICOTINE Pyrox

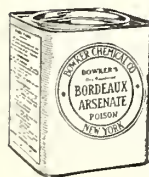
REG. U. S. PAT. OFF.
with water—and spray.

Prices

10 ounce jar.....	50c
40 ounce can.....	\$1.75
10-lb. drum.....	\$4.50

Not Mailable.

Bowker's Powdered Bordeaux Arsenate



Placed on the market only after many years of careful research to produce a combined insecticide and fungicide in powdered form. While as a rule, powdered fungicides are not as effective in controlling blights, rusts and rots as a paste material (like Pyrox) Bowker's Powdered Bordeaux Arsenate provides a very useful material. Being light and very finely divided, Bowker's Bordeaux Arsenate mixes readily, sprays without clogging, and adheres to the foliage for many days. Used for killing leaf-chewing insects and controlling fungous diseases on vegetables and small fruits. Prices—1 lb. 35c; 4 lbs. \$1.25; 48 lbs. \$11.00. Not mailable.



Simply add a little water to Pyrox, put the mixture on the screen of your sprayer tank and let the water wash it through. When the tank is full you are ready to spray.

FARMERS have found it pays to give up spraying with home-made Bordeaux.

Instead, they use Pyrox. It not only saves time and trouble (you only add water, then spray), but it coats the plant leaf like paint, while home-mixed Bordeaux leaves room between drops for insects or disease to attack the plant. This is because Pyrox, made of perfect ingredients that go into complete suspension, will pass through the smallest nozzle. It will not clog and the pressure will force it out, not in large drops, but in a fine mist that completely covers the leaves.

We recommend that you protect your farm crops with Pyrox! It comes in a size for every need.

Nicotine Pyrox

If you have a garden patch, you will want a jar of the new Nicotine Pyrox. It not only kills chewing bugs and prevents blight, but kills sucking bugs, too.



Just mix
Pyrox
with water—and spray

Pyrox prices—1 lb. 50c; 5 lbs. \$1.75; 10 lbs. \$3.00; 25 lbs. \$6.25; 50 lbs. \$10.75; 100 lbs. \$15.50; 300 lbs. \$43.50. Not mailable.

Use Pyrox for your Seed Corn (see page 13).

Bowker's Powdered Arsenate of Lead

The result of 33 years of manufacturing this product—a longer experience than that of anyone else in the business. Bowker's can be used either as a spray or as a dust for all external-chewing insects. It will not burn or injure your crop. Unlike some brands, Bowker's mixes easily, stays well in suspension and is so finely divided that you get an even distribution, with no trouble from clogged nozzles. Sticks to the foliage through heaviest rains. In Bowker's you obtain unusual efficiency at no additional cost. Prices—1 lb. 25c; 4 lbs. 75c; 48 lbs. \$7.50. Not mailable.



Bowker's Powdered Bordeaux Mixture

A powerful fungicide for the control of blights, rusts and rots on any crops where bordeaux is recommended by the experiment stations or other agricultural authorities. Fine, light and fluffy. Bowker's Bordeaux mixes easily and completely. Hence it covers evenly and sticks well to the foliage. When bugs or worms are present use Bowker's Pyrox in place of Bordeaux. Prices—1 lb. 25c; 4 lbs. 75c; 48 lbs. \$7.50. Not mailable.



Bowker's Copper Lime Dusts

These dusts have met with marked favor among the users of these products because of their exceptional quality. This quality is the result of long experience in their manufacture and a clear understanding of what constitutes quality in a dust. With the Bowker factory right here in Baltimore we can make up special dusts according to your own specifications. Ask for prices. 20-20-60 Mixture has met with great success in destroying the Mexican Bean Beetle. 100 lbs. \$8.50, f. o. b. Baltimore, Md.

Bowker's Calcide

(High Grade Calcium Arsenate)



Bowker's Calcide is excellent for potatoes and truck crops; it is cheaper than Lead Arsenate. Although formerly used only in the South to kill the cotton boll weevil, Calcide is now employed in other sections to kill such pests as potato bugs, bean beetles and other leaf-chewing insects. Calcide may be applied either wet or dry. Prices—1 lb. 25c; 4 lbs. 60c; 48 lbs. \$5.75. Not mailable.

chewing insects. Calcide may be applied either wet or dry. Prices—1 lb. 25c; 4 lbs. 60c; 48 lbs. \$5.75. Not mailable.

Bowker's Lime Sulphur, Dry and Liquid

Bowker's Dry Lime Sulphur is made by a special patented process which keeps the product in good physical condition, thus insuring its going into suspension quickly. Dry Lime Sulphur does not have some of the disagreeable features of the Liquid and is now generally accepted by fruit growers everywhere. It is used as either a dormant spray to kill scale or as a summer spray to control fungous diseases such as scab, rot, etc. 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.00; 25 lbs. \$4.00; 50 lbs. \$7.00; 100 lbs. \$12.00 200 lbs. \$22.00. Not mailable.



Bowker's Liquid Lime Sulphur (concentrated) is prepared from the highest grade of lime and the purest sulphur; combined in especially designed apparatus, and in quantities so large as to allow plenty of time for storage and settling. Thus the solution which reaches you is cherry red in color, clear and sparkling. It will not crystallize, thicken up in the barrel, or clog the finest nozzles. If used according to directions, Bowker's Lime Sulphur will kill every scale that it touches. 1 qt. 40c; 1 gal. 90c; 5 gals. \$3.00; 30 gals. \$6.50; 50 gals. \$10.00. Not mailable.

Fertilizers and Plant Foods

Fertilizer and
Plant Foods
Postage extra.

All prices on Fertilizers are subject to Market Changes.

ADCO—Don't waste garden rubbish. Turn it into manure with ADCO. ADCO is a powder which, mixed with almost any non-woody vegetable waste, and kept wet, gradually converts it into manure. 25 lbs. of ADCO make $\frac{1}{2}$ ton of manure. Price, 150 lbs. \$10.50; 25 lbs. \$2.00.

ASPARAGUS SALT—Applied in spring 600 to 800 lbs. per acre. for destroying weeds. 10 lbs. 25c; 50 lbs. \$1.00; original sack, 100 lbs. \$1.50; 140 lbs. \$2.00.

ALUMINUM SULPHATE (For Rhododendrons and Azaleas). 1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; \$6.25 per 100 lbs.

BLOOD (DRIED)—For indoor and outdoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. Fine for ferns. 1 lb. 15c; 5 lbs. 60c; \$1.00 per 10 lbs.; 25 lbs. \$2.00; \$3.75 per 50 lbs.; 100 lbs. \$7.00; \$12.00 per 200 lbs.

PURE BONE MEAL (247-50)—Splendid article for building up worn-out soil, lawns, etc. 1 lb. 5c; 10 lbs. 45c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 167 lbs. \$4.50. Quick acting.

RAW BONE MEAL (3.7-48)—Free from acid. Unusually rich in nitrogen and phosphoric acid, the two principal plant foods. We recommend this especially for greenhouses or any purpose where a high-class slow acting fertilizer counts. 1 lb. 5c; 10 lbs. 50c; 25 lbs. \$1.15; 50 lbs. \$2.00; 100 lbs. \$3.50; 167 lbs. \$5.25; Slow acting.

BONE FLOUR—Finely pulverized and bolted. Effective immediately. For rose growing this cannot be excelled. Rich in phosphoric acid and ammonia. Apply 600 lbs. per acre. 5 lbs. 60c; 10 lbs. 85c; 25 lbs. \$1.50; 50 lbs. \$2.50; 100 lbs. \$4.00; 200 lbs. \$7.50.

COW MANURE—See page 54.

COTTON SEED MEAL—Very rich in potash and ammonia. 1 lb. 6c; 10 lbs. 50c; 25 lbs. \$1.25; 50 lbs. \$2.15; 100 lbs. \$3.50.

F. & I. FERTILIZER AND INSECTICIDE—A ground, tobacco-base fertilizer and insecticide containing fine particles for dusting. F. & I. quickly stimulates healthy growth and protects plant life against insect pests. \$3.25 100 lbs.; 5c lb.

GYPSON or LAND PLASTER—Intensifies the color of roses, other flowers as well. Used for top dressing newly plowed land prior to harrowing; also for sweetening the soil on lawns and fields. Apply 1,000 to 1,500 lbs. per acre. 40c for 10 lbs.; 25 lbs. 60c; \$1.00 for 50 lbs.; 100 lbs. \$1.75; \$2.50 for 200 lbs.

HUMUS (Leaf Mold)—Fine for lawns, replanting and repotting. 4c lb.; 10 lbs. 35c; 50 lbs. \$1.25; 100 lbs. \$2.00; 500 lbs. \$8.00; 1,000 lbs. \$15.00. Ton and car load prices on application.

KAINT (Potash Salts)—Fine for asparagus. 6c lb; 10 lbs. 50c; 25 lbs. \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.50.

LAWN SPUR—A good chemical plant food for the lawn. 100 lb. \$4.75.

LIME (Hydrated or Powdered)—Promotes growth and gives the grass a rich color. Apply one ton per acre on fields, or $\frac{1}{2}$ ton on lawns. 5 lbs. 20c; 10 lbs. 30c; 50 lbs. 75c; 100 lbs. \$1.25; 500 lbs. \$4.50; 1,000 lbs. \$8.00. Ton \$15.00.

MURIATE OF POTASH—Apply 100 to 150 lbs. per acre, usually with other fertilizers. Excellent for potatoes, corn, grains, etc. Analysis, equal to 50 per cent actual potash. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

NITRATE OF SODA ARCADIAN—Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form dilute 2 ozs. to 1 gal. of water and do not apply oftener than twice a week. 10c lb.; 3 lbs. for 25c; 5 lbs. 40c; 10 lbs. 75c; 25 lbs. \$1.50; 100 lbs. \$4.50.

NITRATE OF SODA—Pellet Form—15c lb.; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.00; 100 lbs. \$5.00. Prices on larger quantities on application.

COMMERCIAL FERTILIZERS

Ton prices on request.

BAUGH'S 2-8-5—For potatoes and general crop. 167-lb. bag \$2.75; 100 lbs. \$2.00; 50 lbs. \$1.25; 25 lbs. 75c.

BAUGH'S 1-9-4—All around goods. 167-lb. bag \$2.50.

PERUVIAN GUANO SUBSTITUTE 4-8-5 BAUGH'S—All around high grade fertilizer. 167-lb. bag \$3.50; 100 lbs. \$2.50; 50 lbs. \$1.75; 25 lbs. \$1.25; 5c per lb.

TOBACCO FERTILIZER 4-8-4 BAUGH'S—167-lb. bag \$3.50.

DOUBLE POWER FERTILIZER 4-16-4 BAUGH'S—For grain crops. 167-lb. bag \$3.75.

ACID PHOSPHATE or SOUTH CAROLINA ROCK—16%. Apply 1,000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. Price, per ton; 167-lb. bag \$2.00; 100 lbs. \$1.50.

SHEEP MANURE—See page 54.

Ton prices on application.

SULPHATE OF AMMONIA—10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

SULPHATE OF POTASH—Fine for roses. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

TANKAGE—8c lb.; 5 lbs. 35c; 10 lbs. 60c; 25 lbs. \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.75.

TOBACCO STEMS—For fumigating, mulching and fertilizing. 1 lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50.

WOOD ASHES (Canadian Unleached Hardwood Ashes)—High in potash. Excellent for roses, grass, etc. Apply in early spring or late fall. 1,000 lbs. to acre. 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$2.50.

For Fertilizer to be sent by parcel post, add 7c for 1 lb. and 1c for every additional lb. Like 1 lb. 7c; 10 lbs. 16c.

STIM-U-PLANT

An All-the-Year Fertilizer for Garden and House Plants.
Prices: Small size, 25c; 100 tablets, 75c; 1,000, \$3.50. Postpaid.

DRICONURE
Dehydrated Cow Manure and
PEAT MOSS
Soil Improver
TRADE MARK

THE DESIRABLE LAWN AND GARDEN TOP
DRESSING AND SOIL CONDITIONER

The need for a high-grade, sterile, odorless, ready-to-use, dehydrated cow manure combined with a sterile, high test source of organic media contributing active humus to soils, brought about the development of DRICONURE—ready-to-use turf and garden dressing, which is made of materials of the best quality. Descriptive circular on request.

Prices: 5 lbs. 40c; 10 lbs. 75c; 25 lbs. \$1.50; 50 lbs. \$2.50; 100 lbs. \$4.50; $\frac{1}{2}$ ton \$39.00; 1 ton \$75.00.

IMPORTED GRANULATED
PEAT MOSS
TORT MULL

FOR YOUR GARDEN

GRANULATED PEAT MOSS is a reservoir for moisture. Laboratory tests show that it absorbs from eight to ten times its own weight. When mixed with the soil, it encourages the growth of the important beneficial nitrate-forming bacteria.

PEAT MOSS—The ideal mulch for most flowers, plants, shrubs, trees, lawns, etc. Absolutely odorless, keeps weeds down to a minimum, makes beds look attractive.

PEAT MOSS is nature's own soil improver, very high in humus or organic matter, it helps to make fertilizers more readily available. Being high in humus it aids in building up worn-out soils. It is fine for sandy soils, as it retains the moisture and prevents leaching away of valuable plant food. Peat Moss is also good for clay soils because it permits aeration and drainage and assists root development, it is free from weeds and odorless. 1 pk. 25c, postpaid 32c; 1 bu. 75c, postpaid 87c; small bale of 2 bus. \$1.25, postpaid \$1.43; bale of approximately 20 bushels when loosened, \$3.00.

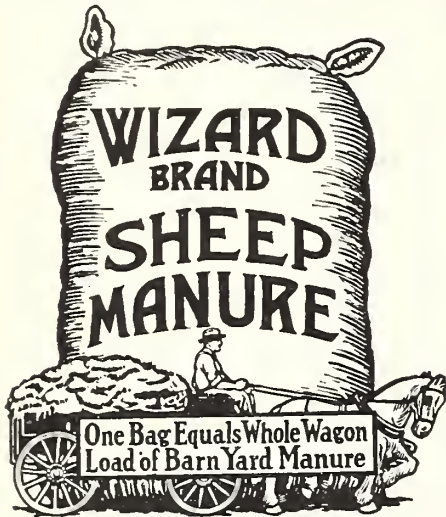
SPHAGNUM MOSS—For packing plants and growing orchids. $\frac{1}{2}$ pk. 35c, postpaid 42c; 1 pk. 50c, postpaid 59c; 1 bu. \$1.25, postpaid \$1.37; bale, about 3 bus., \$3.25.

Larger quantities on quotation.

THE HAWKS FERTILIZER SPREADER

Distributes any kind of commercial fertilizers, lime, sheep manure, etc. Easily filled through the large end-opening. No lumps can come through the sieve-like openings. Adjustable instantly to any desired spread. Capacity about 50 lbs. Price \$7.50.

Sheep Manure



Nature's Plant Food

Sterilized and Absolutely Weedless
For Lawns and Gardens

There are no safer or more dependable plant foods than Wizard Sheep and Cow Manures. These pure manures are highly concentrated and sterilized so as to kill all weed seeds. These natural fertilizers are safe and will not burn plants. Everybody can get wonderful results with Wizard Brand Manures because they supply the humus and natural plant food so necessary to make all soils rich and fertile. Try Wizard this year on your lawn and garden and see how quickly and economically these soil building fertilizers put new life and beauty into your plants.

WIZARD BRAND Cow or Cattle MANURE

Wizard Brand Cattle Manure is made from selected crude manures accumulating in the brick paved pens of the stock yards at Chicago. These crude manures, free of excess straw and rubbish, are concentrated by a direct heat process to kill weed seeds.

Cattle or cow manure is a safe, slow acting plant food preferred for roses, ferns, palms and such plants that are sensitive to the quick acting chemical fertilizers. Wizard Cattle Manure is safe for all plants.

Cattle manure is also best for binding loose sandy soils and for mixing with bench and potting soils.

**A Safe Fertilizer Will Not
Burn Plants**

Economical and Practical Fertilizer For Shrubs, Fruits and Vegetables

LAWNS—Wizard produces a thick velvety lawn of lasting beauty. On new lawns broadcast 10 lbs. to 100 sq. ft. and rake into the surface soil. To rejuvenate old lawns rake them well and then broadcast 6 to 10 lbs. to 100 sq. ft. Wizard acts quickly but will not burn your lawn. To be safe use Wizard—it's positively weedless.

FLOWERS AND SHRUBBERY—Luxuriant green foliage and a wealth of vivid colored flowers quickly follow the use of Wizard Sheep and Cow Manures. Use Wizard Sheep Manure on shrubbery, vines, annuals and quick growing perennials. Cow Manure is better for roses and the more sensitive and delicate perennials. Top dress established plants at the rate of 10 lbs. to 100 sq. ft. and rake into the surface soil. For shrubs, vines and trees from one to five pounds each, depending on size. When setting out new plants always mix a handful of Wizard with the soil under each plant.

VEGETABLES AND FRUITS. Every practical gardener knows that there is nothing better than manure to produce big crops of crisp, tender vegetables. Wizard promotes early maturity and high quality. It increases yield, color and flavor of fruits.

HUNDREDS OF FLORISTS know that Wizard Sheep and Cow Manures are unexcelled for feeding, mulching and liquid manuring. Wizard Manures are all direct heat dried and sterilized. They do not contain garbage tankage, wool scourings, sand or other inferior fillers. Insist on Wizard Brand if you want results at least cost.

Prices, Wizard Brand Sheep and Cattle Manure

2 lbs.	\$.15—Postpaid	\$.23	100 lbs.	2.75
5 lbs. ....	.30—	.41	500 lbs.	12.50
10 lbs. ....	.50—	.66	1,000 lbs.	23.50
25 lbs.	1.00—	1.31	2,000 lbs.	45.00
50 lbs.	1.75—	2.31		

F. o. b.
Baltimore, Md

CITY, SUBURBAN AND DEPOT DELIVERY.



Beautifies Lawns, Vegetable Gardens, Flowers, Potted Plants, Fruit and Shade Trees

Here is a concentrated, high quality plant food, rich in the elements vital to plant life—nitrates, phosphates and potash, as well as other plant nourishment. All the food elements that lawns and gardens need, combined and processed to make them quickly and fully available.

Demonstrations by gardening enthusiasts and leading growers of the country have led thousands of home-owners throughout the country to prove for themselves the power of Loma.

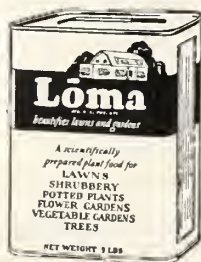
Everywhere the results are the same. In less than two weeks' time, grass treated with Loma is noticeably taller, thicker, greener. Loma produces bigger and juicier vegetables, larger and brighter blooming flowers.

LOMA is odorless, clean, many times more powerful than barnyard manures, and entirely free from weed seeds. So easy to apply, too. It is sown like grass seed—then wet down. That's all there is to it.

LOMA is packaged in six convenient sizes, from the 1-lb. can to the 100-lb. sack.

Prices

1-lb. can	.....\$ .25—Postpaid \$.32
5-lb. can	.....50—Postpaid .61
10-lb. bag	.....85—Postpaid 1.01
25-lb. bag	.....1.75—Postpaid 2.06
50-lb. bag	.....3.00—Postpaid 3.56
100-lb. bag	.....\$5.00 f. o. b. Baltimore, Md.



Lōma

TRADE-MARK REG. U.S. PAT. OFF.

BloomAid

For Flowers — Shrubs — Vegetables

BloomAid is easy to use, indoors or out. A tablet or two, or a spoonful of liquid Bloom-Aid in a glass of water—either is enough for a potted plant, now and then. For window boxes, porch boxes, and the flats where the seedlings grow, use granulated BloomAid from a shaker-top pound can or by the spoonful from a five-pound can. Outdoors, in the beds and among the shrubbery and around the hedge, use granulated BloomAid from bags. Full directions with every package.

TABLETS

These tablets are immediately soluble and their size permits of a very even distribution of plant food in any size pot.

Box of 125, 25c postpaid.

LIQUID

8 ounce bottle, 50c,
not mailable.

PULVERIZED

1 pound can, 25c;
postpaid 32c.
5 pound can, 50c
postpaid 61c.



10 pound bag, 85c;
postpaid \$1.01.
25 pound bag, \$1.75;
postpaid \$2.06.
50 pound bag, \$3.00;
postpaid \$3.56.
100 pound bag, \$5.00,
f. o. b. Balto., Md.

Gentlemen:—We have tried your BloomAid in our greenhouses with amazing results. We wish to recommend same very highly.

JOHN COOK, INC.

315 N. Charles St., Baltimore, Md.

V-C
Fairway
GRASS FOOD

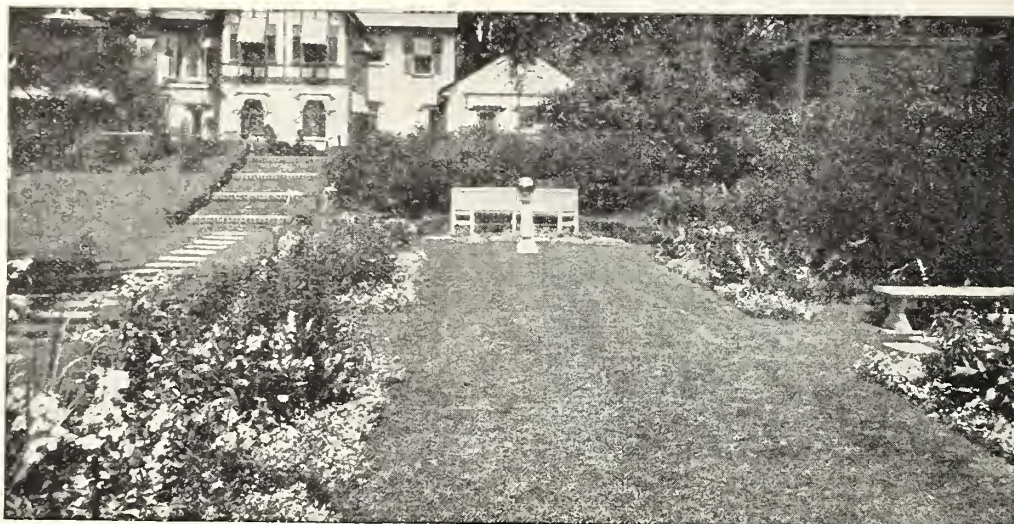
Feed your lawn with a clean, rich food that the grass will relish and that neither you nor your neighbors will notice. Feed it V-C Fairway, then watch the turf grow fast—thick, green and velvety. Anybody can do the work. V-C Fairway is a dry and granulated powder, ready for use, in bags, easily handled. Carries no weed seeds, no insect pests, no plant diseases. Moderately priced.



10 pound bag, 85c; postpaid \$1.01.
25 pound bag, \$1.75; postpaid \$2.06.
50 pound bag, \$3.00; postpaid, \$3.56.
100 pound bag, \$5.00, F. O. B. Baltimore.

VIGORO

Complete plant food



For Beautiful Lawns and Gardens

All plants require a complete, balanced diet for full growth and beauty. The best seed or plants will not produce good results if grown in a soil which is deficient in any one of the many necessary food elements.

For velvety-green lawns with deep, extensive roots; large, beautiful flowers; luxuriantly foliaged shrubs and trees; and early, delicious vegetables, feed them Vigoro, the complete, scientifically balanced food for all plants, and you may be sure your plants have all the nourishment they need.

Vigoro is easy to use and economical. Simple directions for feeding everything you grow accompany each bag or package. Vigoro is used annually on 3,000,000 homes. We recommend it.

*A square meal for
lawns and flowers
is 4 lbs. of Vigoro
per 100 sq. ft.*

Vigoro Spreaders for the Larger Home

The Vigoro Spreader, illustrated, is an easy-running, sturdy machine, built on the forced-feed principle. Loaded to capacity or nearly empty, it spreads uniformly at any desired rate. A baffle board carries material to within 3 inches of the ground. Equipped with handle control shut-off and a definite rate adjustment dial.



PRICES

- 12 oz. pkg. 10c;
postpaid 17c.
 - 5 lb. pkg. 50c;
postpaid 61c.
 - 25 lb. bag \$1.75;
postpaid \$2.06.
 - 50 lb. bag \$3.00;
postpaid \$3.56.
 - 100 lb. bag \$5.00
- f. o. b. Baltimore,
Md.



SPREADER PRICES

- Little—14-in. spread, 13-lb. cap. . . \$1.95
 - Junior—14-in. spread, 20-lb. cap. . . 5.95
 - Standard—2-ft. spread, 65-lb. cap. 10.45
 - Special—3-ft. spread, 100-lb. cap. \$16.25
- All prices f. o. b. Baltimore.

Little Model for the Small Home

Spreads Vigoro and seed evenly and accurately. Saves time and labor. Ideal for sowing on windy days. Designed for use on established lawns. Fills the need of the small home owner, yet it cost no more than a good garden spade. Sturdily constructed. Weight 6 lbs.



VIGORO

Complete plant food

*Velvet Lawns! Beautiful Flowers!
Luscious Vegetables!*



Feed Your Plants
THIS SIMPLE, EASY
PLEASANT WAY

These new air-nitrogen fertilizers are three to four times as rich in plant-food as the ordinary fertilizer. They are as clean as sugar to handle, and are absolutely free from weed seeds and all obnoxious odors.

NITROPHOSKA
15-30-15

This concentrated complete fertilizer contains all of the three essential plant-foods—nitrogen, phosphoric acid and potash. It has 15% nitrogen, 30% phosphoric acid and 15% potash. Nitrophoska produces strong, vigorous growth of rich green color. Five to ten pounds is enough to fertilize 1,000 square feet of lawn or garden.

FLORANID
(UREA)

Floranid is a very rich nitrogen fertilizer (46% nitrogen), used during the growing season to obtain more rapid growth, richer color of foliage and greater brilliancy of bloom. The nitrogen is in the same chemical form as liquid manure. One pound of Floranid is enough for one application to 1,000 square feet of lawn or garden.

A Trial Will Convince You



Not until you try these wonderful new fertilizers can you possibly realize the marvelous results that they will give you. Five to ten pounds of Nitrophoska is enough for an early spring application to 1,000 square feet of lawn or garden. One pound of Floranid is enough for one summer application for 1,000 square feet of lawn or garden. Be sure to try these fertilizers this season—mail in your order now.

The amount of actual plant-food in a fertilizer—not its bulk—determines its value. Nitrophoska is the most economical fertilizer because it contains the most plant-food—"a little goes a long way." Amount of Nitrophoska required, compared to the usual fertilizer:

Other Fertilizers	Nitrophoska	PRICES (Nitrophoska or Floranid)
3 to 5 lbs.....	1 lb.	1 lb. ....\$ .25—postpaid \$.32
15 to 25 lbs.....	5 lbs.	5 lbs. .... .90—postpaid 1.02
30 to 50 lbs.....	10 lbs.	10 lbs. 1.50—postpaid 1.67
75 to 125 lbs.....	25 lbs.	25 lbs. 2.75—postpaid 3.07
	25 lbs.	50 lbs. 4.75—postpaid 5.32

Nitrophoska is also packed in 100 lb. moisture-resistant bags. Price \$8.00 F. O. B. Baltimore, Md.

You Will Be Assured

BEAUTIFUL GARDENS AND LOVELY HOUSE PLANTS

By Using the New, Improved, Quick Dissolving
PLANT FOOD IN TABLET FORM

FULTON'S
Plantabbs
ODORLESS PLANT FOOD TABLETS

These tablets are very concentrated yet properly balanced with the guaranteed high analysis of Nitrogen 11%, Phosphoric Acid 15%, Potash 20%. Convenient, clean, being specially adapted to inside use where smelly fertilizer cannot be used. Makes ferns, begonias, window boxes grow and thrive in spite of heated rooms.

FOR GARDEN USE

PLANTABBS are highly recommended for roses, delphinium, asters, dahlias, chrysanthemums, in fact all garden flowers. When planting bulbs place one tablet under each bulb and they will produce marvelous blooms. PLANTABBS are perfectly safe. Directions in every package. 30 Tablets 25c; 75 Tablets 50c; 200 Tablets \$1.00; 1000 Tablets \$3.50. Postpaid.



The Vex Automatic Fertilizer

Makes it Possible for You to Fertilize Your Lawn as You Sprinkle
What It Is—How It Works



The Vex Automatic Fertilizer is simply an enameled brass cylinder 12 inches long and 3 inches in diameter. It has two hose connections. One for the water to enter from the faucet. The other for the water to pass out through your own lawn hose—charged with this remarkable grass food.

Into this cylinder is slipped a cartridge of Lawn-Vex—sufficient for 2,400 square feet or a plot 40x60.

This cartridge dissolves to the proper solution as the water passes through the

cylinder. Thus an even flow of life-giving food is spread over your lawn as you sprinkle it.

Prices: Containers and Cartridges complete, \$5.00, postpaid.
Extra Cartridges, \$1.50 each, postpaid.

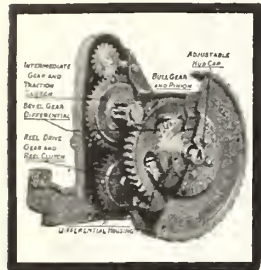
Plant Vitalizer

You Vitalize as You Sprinkle.

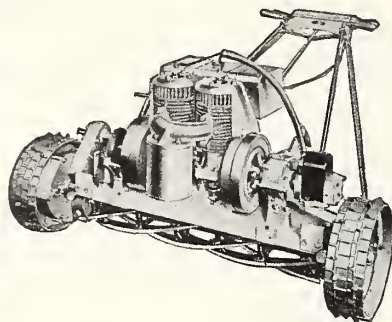
The Vitalizer Sprayer, made of aluminum, will last a lifetime—it can't get out of order. Five cubes make a filling.

"Plant Vitalizer" is safe and sure, odorless, completely balanced, and is readily soluble; applied through the Vitalizer Sprayer, it gets down to the roots and nourishes at once! Sprayer and one filling are sold at \$1.50, postpaid \$1.57. Additional fillings (5 cubes), 25c; postpaid 30c.

JACOBSEN POWER MOWERS



Automotive gear drive running in oil found only in a Jacobsen.



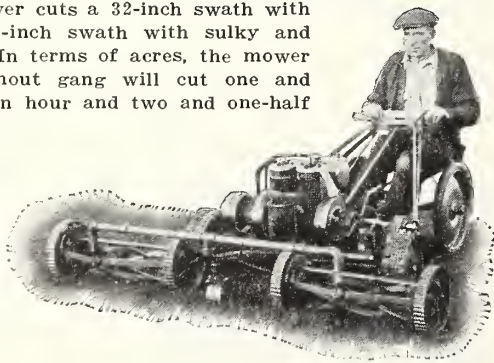
The New 32-Inch Heavy Duty Mower With Twin Motor

The new 32-inch Heavy Duty Mower is built for long, reliable and trouble-free service. It has a twin cylinder, high compression motor, throttle controlled, counter balanced crank shaft, with an abundance of power even when mower is operated with the gang attachment. Operation is simple, it is completely controlled from the steering handle. Separate clutches operate the cutting and traction units.

The Twin is equipped with a two-speed transmission—one and one-half to eight miles per hour with 200-lb. operator on sulky. High gear for ordinary cutting and low for exceptionally heavy grass and grades. Other exclusive features include self-sharpening device, auto-type differential, for easy turning around trees, and shrubbery, running in oil. The Twin is especially adapted for large estates, parks, cemeteries and school grounds.

The Twin with Gang Attachment

This new mower cuts a 32-inch swath with sulky and a 66-inch swath with sulky and gang mowers. In terms of acres, the mower with sulky without gang will cut one and one-half acres an hour and two and one-half acres with gang consisting of two extra 19-inch side units. Sulky and Gang come as extra equipment. Rubber tired wheels are also optional.



32-inch Heavy Duty Twin Motor without Grass Catcher (Iron Traction Wheels).....	\$395.00
32-inch Twin Grass Catcher.....	\$19.00
Gang Attachment, including Hitch and Two 19-inch Side Units.....	\$125.00
Rubber Tired Riding Sulky.....	\$40.00 Delivered

Gentlemen:

Seven years ago I wished to purchase a Power Lawn Mower. After having several makes demonstrated on our 5 acres of very difficult hillside I found the Jacobsen 4 acre mower the only one that would cut it satisfactory. This same mower has continued to cut the whole 12 acres of lawn since with a very small maintenance cost.

Yours very truly,

MR. A. M. JONES,
c/o Mrs. Geo. Cook, Greenspring Ave. and
Valley Road, Stevenson, Md.

Gentlemen:

The Jacobsen Estate Mower purchased from you two years ago has cut our 5 acres of lawn with absolute satisfaction and no repair bills.

Yours truly,

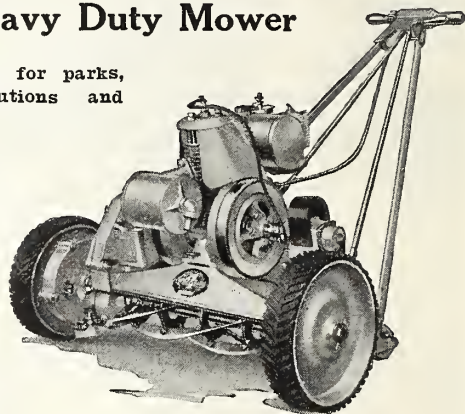
MR. H. C. GETTY, (Gardener)
c/o Mrs. Austin McLanahan,
Mt. Washington, Md.

4-Acre Heavy Duty Mower

A superior mower for parks, cemeteries, institutions and private estates.

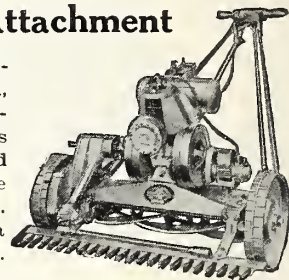
The 4-Acre Heavy Duty is the last word in power lawn mowers. It is a quality mower, built from the ground up. The 4-Acre will do better work, more of it, and will keep up the work longer at less maintenance cost than any other mower made.

Capacity, 4 to 5 acres in 8 hours and with Riding Sulky, 6 to 7 acres. It has been designed for easy handling, turns under its own power by the mere pressure of the finger. High compression motor, instantaneous mechanical starter, self-sharpening device, etc. The cutting cylinder which is mounted on Timken Bearings has been improved and made more durable. The bed knife is of Chrome-Vanadium, heat treated. The 4-Acre is gear driven, gears enclosed and running in oil. Rubber tired wheels is optional equipment.



Sickle Bar Attachment

The Sickle Bar Clipping Attachment cuts Dandelions, Buckhorn, Plantain and other lawn pests before going to seed. The clipper sets ahead of the cutting wheel and operates independently or at the same time. It is finely engineered, gear driven and operates with a surprising freedom from vibration.



The Riding Sulky

The Riding Sulky is adapted for the 32-inch Heavy Duty Twin, 4-Acre, 24-inch and 30-inch Estate Mowers. It is possible to nearly double the capacity of the mower. The Sulky is easily and quickly attached and takes very little power.

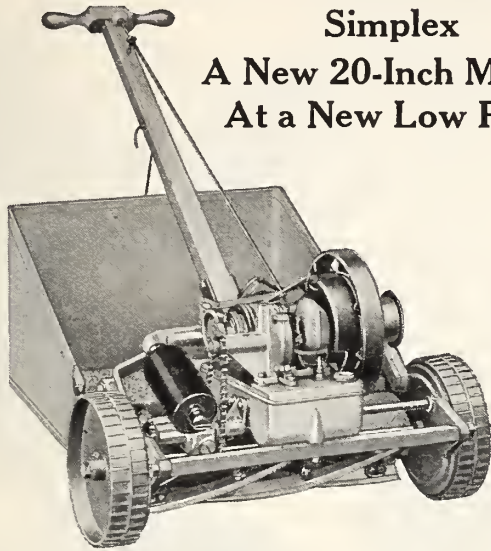


4-Acre H. D. Mower without Grass Catcher (Iron Traction Wheels)	\$305.00
4-Acre H. D. Mower without Grass Catcher (Rubber Tired Traction Wheels)	\$308.50
Sickle Bar Attachment.....	\$75.00
Installation Charge for Sickle Bar Attachment.....	\$5.00
Rubber Tired Riding Sulky Delivered.....	\$40.00

Grass Catchers

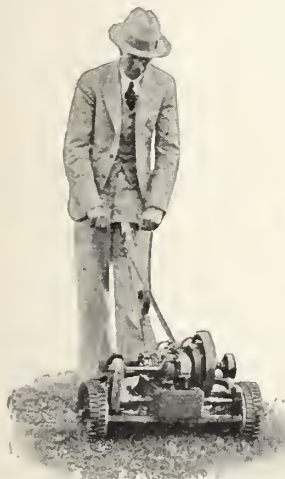
4-acre H. D. Mower Grass Catcher.....	\$10.00
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JACOBSEN POWER MOWERS



Simplex
A New 20-Inch Mower
At a New Low Price.

We predict immense popularity for the new Jacobsen 20-inch Wheel Type Mower, because of its popular price appeal and because of its genuinely good construction. The new mower is thoroughly reliable. It is light enough to handle easily around shrubbery and in and out of corners and heavy enough to give it stability and strength. This mower has a "power turn" enabling it to turn on its own wheelbase, under power. Anyone in the family can run it. The motor is dependable and powerful enough to climb terraces and cut through thick grass. Its performance will surprise you. Look at the features that this mower has, many are exclusive with Jacobsen and others found only on the high priced power mowers. Two-cycle, constant speed motor. Bevel gear differential. Safety clutch. Taper roller bearings. Chrome Vanadium heat treated bed knife and reel blades. Smooth operating, single dry plate clutch. Adjustable cutting heights for all conditions. Handle locks at desirable position or is self-adjusting. With this mower you can mow a lawn several times a week and keep it beautiful and neat all summer long, and it is priced within the reach of anyone of ordinary means. The new 20-inch is a wonderful machine for park trimming, school lawns, rural cemeteries where it is necessary to get around tomb-



Quick starting, handles easier than an ordinary hand lawn mower.

For residence lawns, rural cemeteries, public schools and parks.



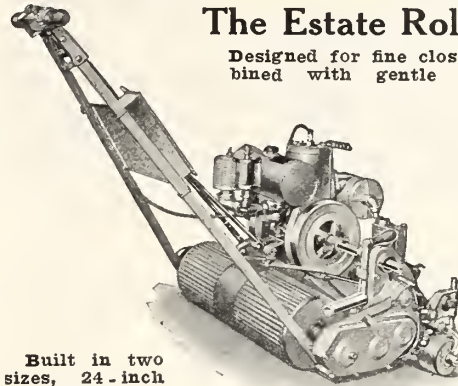
stones; for golf courses, to mow bunkers and sides of sand traps where the ordinary heavy power mower will not negotiate.

20-inch Simplex Mower without Grass Catcher \$155.00

Jacobson Jr. Mower 19-inch but without Grass Catcher \$210.00

20-in. Grass Catcher \$75.00

Delivered.



The Estate Roller Mower

Designed for fine close cutting combined with gentle rolling effect.

The Estate trims right to the edge of flower beds, walks, etc., and can be used in sunken or formal gardens. Equipped with same motor as the 4-Acre Heavy Duty; it is a power mower easily operated by the old gardener, without fatigue or trouble. It comprises all other fine mechanical

features such as enclosed gear transmission, separate traction and reel clutches, automotive differential and self-sharpening device. The Estate is a roller mower for the finest lawn; a mower that cuts finer, smoothing and rolling and fairly "massaging" the turf to a wonderful putting green surface. The grass catcher is optional. An additional front roller may be had for use in place of caster wheels for close cutting, at a slight extra cost.

24-inch Estate without Grass Catcher.....	\$305.00
30-inch Estate without Grass Catcher.....	340.00
24-inch Estate Grass Catcher.....	12.50
30-inch Estate Grass Catcher.....	16.00

Delivered.

The Power Putting Green Mower

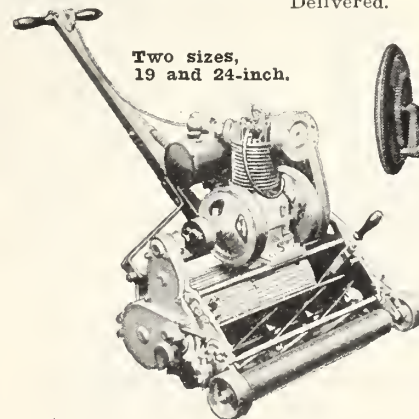
The Jacobsen Power Putting Green Mower is outstanding in its capacity for cutting; brushing and working in top dressing and rolling the greens with perfect results with less labor and less cost. The Brush Attachment is a patent Jacobsen feature. Auto type differential, separate clutch control, seven-blade reel. Cuts a 19-inch or 24-inch swath, reel sharpened by a mower's own power. Timken Bearings, enclosed gear drive.

Power Transport

Power Transport for transporting mower to greens by power of the motor. Will increase life of mower.

19-inch P. G. Mower with Catcher.....	\$280.00
24-inch P. G. Mower with Catcher.....	305.00
19-inch or 24-inch Grass Catchers.....	10.00
19-inch Power Transport Cart.....	70.00
24-inch Power Transport Cart.....	70.00

Delivered.



Two sizes, 19 and 24-inch.



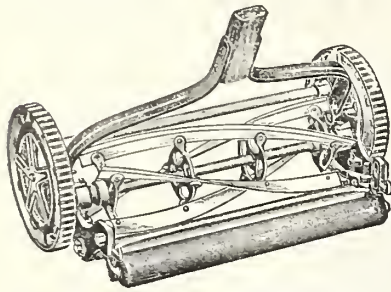
Gentlemen:

The Estate Mower which we purchased from you last season is giving us entire satisfaction.

Mr. A. M. HIGGS (Sup't),
Baltimore Museum of Art,
Baltimore, Md.

Our Mowers Must
Give Results

M.-S. RELIABLE LAWN MOWERS, ETC.



**M.-S. CRUSADER—
(BALL BEARING)**

A light weight, four blade mower similar in design and construction to the Interstate except that the drive wheels are 9 ins. diameter. A suitable mower for ladies on account of its easy running capacity. 16 inch cut.

Special price, \$10.00.

PENNSYLVANIA HIGH WHEEL (STANDARD)

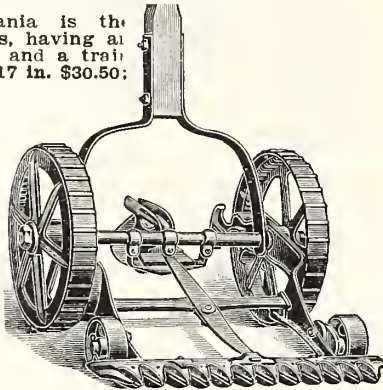
The Standard Pennsylvania is the pioneer of all lawn mowers, having an open cylinder, open wheels and a train of gears. 15 in. cut \$27.00; 17 in. \$30.50; 19 in. \$34.50.

THE CLIPPER MOWER

That will kill all the weeds in your lawn. If you keep all the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass becomes thick and weeds disappear. The mower that is worth its weight in gold to the one who has a lawn—With Buck Plantain in it. With Summer Grass in it. With Dandelions in it. With Crab Grass in it.

The "Clipper" is the only mower that will cut it!

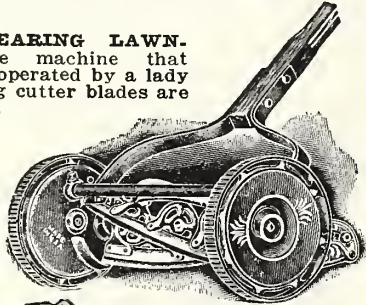
PRICES: No. 2—15-inch \$12.50. No. 3—18-inch \$12.50.



"COLONIAL" BALL BEARING LAWN MOWER—A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

PRICES:

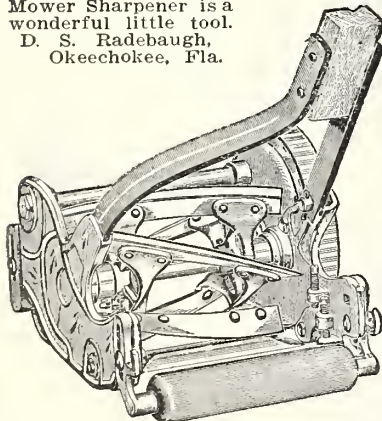
12 in. \$9.50; 14 in. \$10.50;
16 in. \$11.50.



Gentlemen:

Your M.-S. Lawn Mower Sharpener is a wonderful little tool.

D. S. Radebaugh,
Okeechokee, Fla.



COLDWELL'S IMPROVED HORSE LAWN MOWER

All steel, complete with shaft, seat and side draft,
\$175.00 F. O. B. Baltimore, Md.

M.-S. LAWN MOWER SHARPENER—Can be adjusted for any thickness of blade and when properly set will give a uniform bevel, the sharpener following the twist of the knife. It will also sharpen the under blade or dead knife. Price, 75c each, postpaid.

OVERHAULING AND SHARPENING OF LAWN MOWERS—The best time for this is before the actual time of lawn mowing has come. Let us do this for you. We call for and deliver the work.

COLDWELL'S IMPERIAL ROLLER BEARING—Designed to meet the demands of park and cemetery superintendents. Durable, light running, easy to push and requiring minimum of attention to adjustments. Roller bearings enclosed in dust-proof housings. When packed with light grease will need no further oiling for the season. Best lawn mower on the market for hard service in parks, cemeteries and private grounds.

Lightest Running—Strongest Built.

Wheels—10¼ inch.

Blades—Five.

Bearings—Standard Hyatt Roller.

Gears—Triple-pawl ratchet.

Material and Finish—Highest class.

Prices: 16 in. \$18.50; 18 in. \$19.50; 20 in. \$20.50.

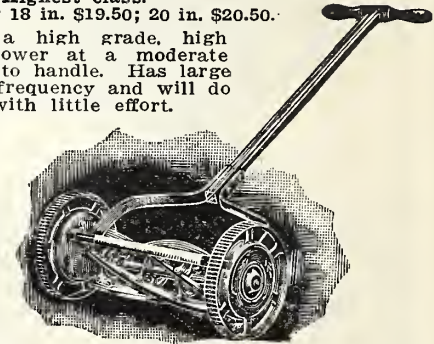
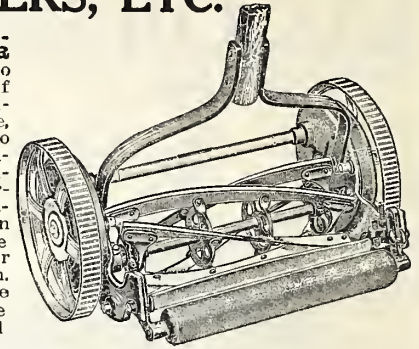
"INTERSTATE"—Is a high grade, high wheel, ball bearing mower at a moderate price. Light and easy to handle. Has large revolving cutter, high frequency and will do a fine job of cutting with little effort.

Finished blue and gold.

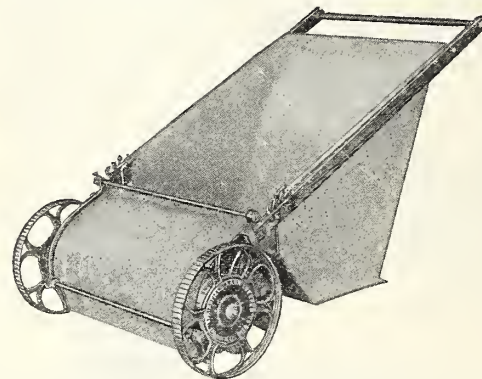
Prices: 14 in. cut \$12.50;
16 in. \$13.50.

THE NEW IMPROVED SPRINGFIELD SWEEPERS
Model "E" for parks, cemeteries, golf grounds, estates, residences, etc.

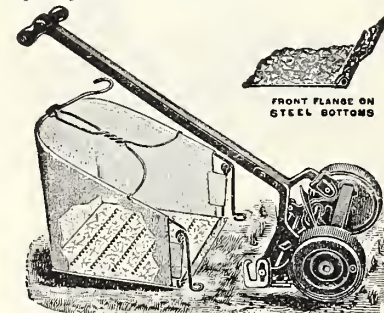
This lawn beautifier not only saves time and labor, it gives new life, new beauty to your lawn. It gently



collects fresh cut or dead grass, paper, sticks, stones, leaves without harming the grass itself. Once over with this time-tested sweeper and you see your lawn in all the richness of its natural beauty. The action of the revolving brush is beneficial to the turf. It raises the low-growing crab grass and other spreading weeds, so that the lawn mower cuts off the seed pods before they ripen. Not only are they profitable from a time and labor standpoint—they promote the growth of grass. The Springfield Lawn Sweeper is a real necessity for the economical upkeep of lawns and grounds.



spreading weeds, so that the lawn mower cuts off the seed pods before they ripen. Not only are they profitable from a time and labor standpoint—they promote the growth of grass. The Springfield Lawn Sweeper is a real necessity for the economical upkeep of lawns and grounds.



Made in three sizes:
20 in., 28 in. and 36 in.
Price: \$25.00, \$30.00 and
\$40.00 F. O. B. Baltimore, Md.

M.-S. EASY EMPTYING CANVAS GRASS CATCHER

Designed to fit any size or style of mower and can be attached or detached in a moment. Made of strong canvas and galvanized iron bottom. To fit any mower, No. 5G—12 to 18 inch. \$1.00; postpaid \$1.25; No. 6G—16 to 22 inch, price \$1.50; postpaid, \$1.60.

ECONOMY GRASS CATCHER—A good make, but lighter than the Easy. Construction similar, fits any mower from 12 to 17 inches. No. 17G—Price, 75c; postpaid, 85c.

HOUSEHOLD LUBRICANT—A splendid oil for lawn mowers. Price, 25c per can; postpaid 30c.

APPROVED DUSTERS FOR MEXICAN BEAN BEETLE CONTROL AND GENERAL GARDEN AND FIELD USE



Fig. 1.

Platz Double-Action Duster

The Double Action Duster is identical with the Single Action in construction with the exception of the double bellows, which insures a more steady flow of dust with the same ease of operation, and is better adapted for dusting a denser growth of foliage. Net weight, 17 lbs. Shipping weight, 44 lbs. Capacity, 20 to 30 pounds.

Price, \$22.00. Fig. 1.

Single Action Duster — Weight 15 lbs. Price, \$17.00.

Platz Green Hand Duster

Materials must first be sifted. Discharge pipe can be arranged to throw dust up or down. Has large, powerful leather bellows. Capacity 4 lbs. Price, \$6.00 postpaid. Fig. 3.

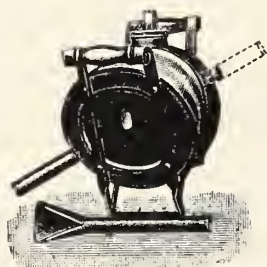


Fig. 3.

Feeney Duster, Model D-2

50 inches long—Hopper holds 2 qts. Extra nozzle for general use.

This Duster is efficient, durable and easy to operate and reload. It is equipped with extension tubes and special nozzles for dusting upward from underneath plants and vines. It is the approved type for Mexican Bean Beetle. Price, postpaid, \$4.10. Fig. 5.

D & B Duster No. 200

For dusting all vegetable and fruit crops as well as cotton, tobacco, etc. Can be used effectively with any kind of dusting material whether it be heavy, light, sticky, or in lumps. Patented Agitators and Feeding Device prevent hanging up of powder in hopper. Powerful air blast breaks up the powder into fine dust and prevents clogging of outlet. Uniform flow of powder always assured. Capacity, 5 to 10 lbs., depending on powder used. For single or double row. Price, \$14.50; postpaid, \$14.75. Fig. 4.

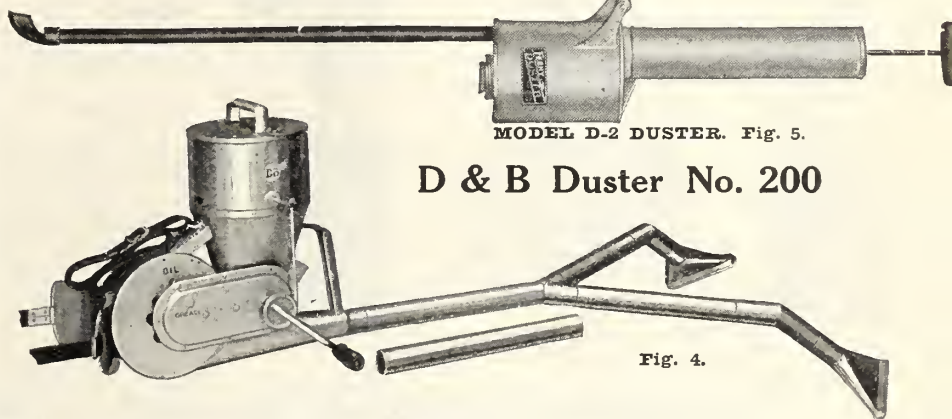


Fig. 4.

RUBBER GARDEN HOSE, REELS, MENDERS, ETC.

Molded Braided Garden Hose

It is guaranteed not to break.

Continuous length braided $\frac{5}{8}$ inch hose. We can furnish any lengths. We can highly recommend this hose. 15c per foot any length without couplings. $\frac{3}{4}$ inch, 1c per foot more. $\frac{1}{2}$ inch, 1c per foot less.

$\frac{5}{8}$ inch Hose, 25 feet coupled, \$3.75; 50 ft. coupled, \$7.25.

ELECTRIC HOSE—The best hose obtainable. $\frac{3}{4}$ in. 20c foot. **SMITH BRASS SPRAY NOZZLE**—Sprinkles like a watering can. For green house and general watering. Price, \$1.50 postpaid.

BOSTON NOZZLES—Combined solid stream and spray. Each 85c postpaid.

RAIN KING NOZZLE—The best yet. \$1.50, postpaid.

RAIN KING HOSE COUPLER

—Connects hose to either faucet, sprinkler, nozzle, or hose instantly; saves time; saves the hose. Fits nozzles, sprinklers, and standard hose connections. Price, 60c, postpaid.

SIAMESE CONNECTIONS, Regular Size. Each \$1.00, postpaid.



Platz Famous Hand Duster

Its agitator will crush and sift sulphur as well as the standard dusting materials. Regulator is adjustable for a light or heavy application. Bellows of high quality leather. Extension pipes and spreader of 24 inches. Compact and efficient. Capacity, one pound. Price, \$5.00 postpaid.

Fig. 6.

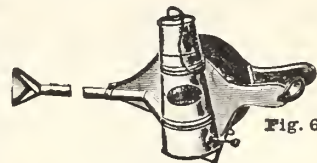


Fig. 6.



Crystal Duster

A new type hand duster with glass jar container. This duster is especially good for use in dusting garden, truck, field crops, flowers, poultry houses, and is especially recommended for use with Cyanogas. The discharge is continuous. Price \$1.25, postpaid \$1.34.

This Duster is adapted for use with all insect powders. A favorite with the housewife. Powder chamber $1\frac{1}{4}$ in. diameter, 4 in. long. Pump $1\frac{1}{4}$ x 12 inches.

Price, 75c; postpaid, 85c.

Duster Brown No. 1



Cyanogas Dusters

Cyanogas—Special Hand Duster, \$1.40 postpaid.

Cyanogas Foot Pump—Small, \$4.75. Postpaid, \$5.00.

Cyanogas Knapsack Duster—\$16.00, postpaid.

D & B Duster No. 200

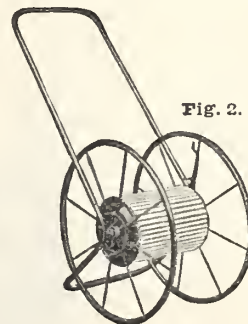


Fig. 2.

HOSE MENDERS (Sure Shot)—15c ea.; \$1.75 per doz., postpaid.

HOSE COUPLINGS—Brass, regular size, 25c per pair, postpaid.

HOSE WASHERS—Rubber, regular size, 10c per dozen, postpaid.

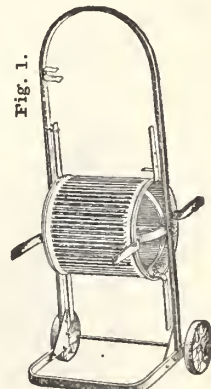


Fig. 1.

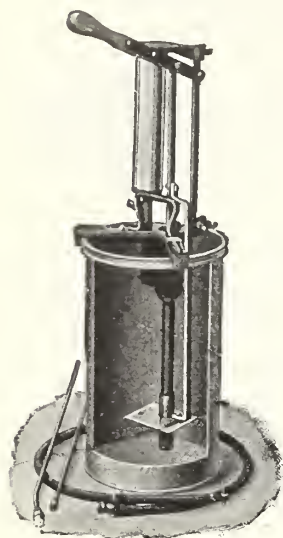
HOSE BANDS—For $\frac{3}{4}$, $\frac{5}{8}$ and $\frac{1}{2}$ -inch hose. 5c each, 50c per dozen, postpaid.

HOSE REELS—Victor all steel; cap. 75 ft. Price \$1.50. (Fig. 1).

No. 10 TUBULAR HOSE REEL—Cap. 100 feet. Price, \$4.00.

No. 20 TUBULAR HOSE REEL—Cap. 150 ft. Price \$5.00. Fig. 2.

Paragon Sprayers



Paragon Sprayers are of superior quality in material and workmanship; they have the following exclusive features:

Large reserve brass air chamber which makes it twice as easy to operate and maintain a high working pressure, insuring a uniform, fine mist spray.

The pump is not submerged in the liquid. Have a large circular strainer containing 16 square inches of straining surface automatically cleaned.

Ample equipment, much more than sent out with the ordinary sprayer.

When all these features are considered it is cheaper in price, will give better satisfaction and last a lifetime.

The Paragon Disclosed

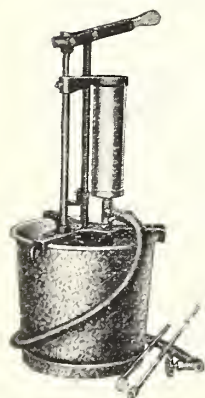
(Notice Skeleton Illustrated on the Left)

The **Paragon Sprayer** cannot clog for the large circular strainer has smaller openings in it than the outlet opening in the nozzle and anything passing through the strainer will pass through the nozzle. This strainer is scraped clean automatically by the galvanized agitator every time the pump handle is operated and it isn't even necessary to strain any solution before putting it in the Paragon sprayer container.

The **Paragon Sprayer** not only handles regular insecticides and fungicides and disinfectants, but white wash, cold water paints, cement coatings, water proofings, shingle stains, thin oil paints, etc.

The **No. 3 Paragon Sprayer** is especially recommended for general use. It is furnished either with two-wheel truck as illustrated or with truck with a 16-inch single wheel. Easy to handle, yet very strong and durable.

For Spraying Whitewash, Water Paint, Cement Coating, Etc.



**PARAGON
SPRAYER No. 0**

3½ Gallon

Equipment furnished:
4 feet Special Spray
Hose.

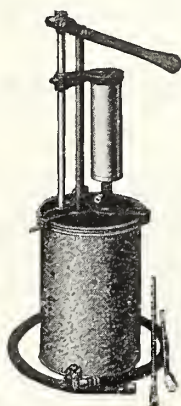
3 feet Spray Pipe.

Shut Off Valve.

Three Spray Noz-
zles.

Price complete, \$12.50.

Postpaid.



PARAGON No. 1

6 Gallon Capacity.

Price, \$17.50.

Postpaid.

Equipment furnished:

5 feet Special Spray
Hose.

5 feet Spray Pipe,
total reach 10 ft.

Shut Off Valve.

Three Spray Noz-
zles.



PARAGON JR.

Compressed Air
Sprayer.

Double Tested All
Brass Pump.

Galvanized Tank, 4
gallon capacity.

This is the only
Paragon model that
does not have the
self-cleaning feature.

Price complete, \$6.50.
Postpaid.

No Straining of Materials Necessary . . . Cleans Automatically

These three sizes f. o. b. Baltimore, Md.



**PARAGON
SPRAYER No. 3**

12 Gallon
Equipment fur-
nished:

10 feet Special
Spray Hose.

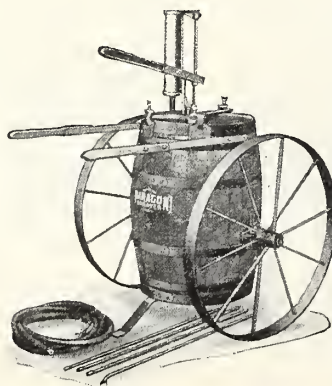
7½ feet Spray
Pipe, total reach
17½ feet.

Shut Off
Valve.

Three
Spray
Nozzles.

Price complete with Single or two-wheel
truck \$22.50

Price without truck 19.00



**PARAGON
No. 4**

28 Gallon
Equipment
Furnished

20 ft. Spe-
cial Spray
Hose.

10 ft. Spray
Pipe.

Shut Off
Valve.

3 Spray
Nozzles.

Price com-
plete \$39.50

Without
wheels
\$29.50



**PARAGON
No. 5**

50 Gallon
Has all
Brass Pump.
Equipment
furnished

25 ft. Hose.
10 ft. Extension
Pipe.

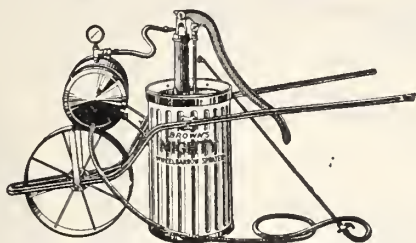
Shut Off
Valve.

Three Noz-
zles.

Price
complete
\$45.00

SPRAYERS AND NOZZLES

Brown's Mighty Wheelbarrow Sprayer



Has 15 gallon capacity and a 250-lb. high pressure air tank with pressure gauge, paddle agitator, 8 foot hose, 2 foot 8 inch iron extension and non-clog nozzle. An excellent sprayer for spraying orchards, field crops, garden truck vineyards, lawns, and all general spraying.

Price, \$36.00. Shipping weight 112 lbs.

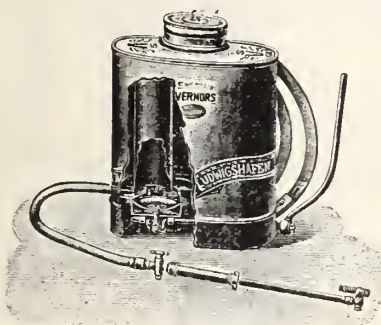
Platz Vermors Brass Sprayer

A PRODUCT OF
QUALITY

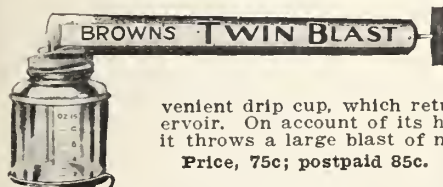
COMPACT — DURABLE
— EFFICIENT

Having no plunger pump, it has no plunger troubles. Its diaphragm-pump will supply a sufficient pressure with but little effort. Its working parts are few, making it easy to operate and economical in upkeep. Capacity approximately four gallons. Net weight 16 bs.

Price, \$20.00. Shipping weight 28 lbs.



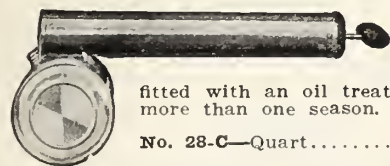
Brown's Twin Blast



This glass reservoir, single-acting, twin jet atomizer is efficient and powerful. It has a convenient drip cup, which returns all drip to the reservoir. On account of its having two syphon tubes it throws a large blast of misty spray.

Price, 75c; postpaid 85c.

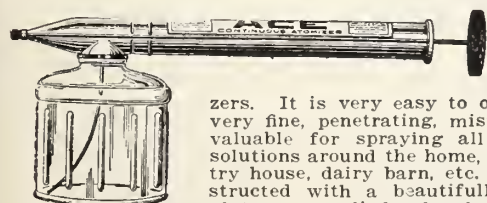
Brown's Whirlwind Tin Sprayer



A strong atomizer made of heavy tin used for all light spraying and disinfecting. The pump of the sprayer is fitted with an oil treated leather cup that lasts more than one season.

No. 28-C—Quart.....50c. Postpaid 60c

Brown's Ace Glass Jar Sprayer



A new type continuous atomizer which is more efficient than most continuous atomizers. It is very easy to operate and gives a very fine, penetrating, misty spray. It is invaluable for spraying all sorts of spraying solutions around the home, in the garden, poultry house, dairy barn, etc. It is durably constructed with a beautifully lithographed tin plate pump cylinder, has leakproof valve, brass syphon tube and nozzle. The strong glass jar is of pint capacity and is hexagonally shaped to prevent the sprayer from tipping. The cam locking construction enables the operator to easily fill or empty the container. Price, 75c; postpaid, 85c.

Brown's Auto-Spray No. 9



Sturdy compressed air sprayer. The metal in the tank is lock-seamed, well riveted, and soldered throughout. May be obtained with brass or galvanized tank. Brass tank is strongly recommended as it will not rust and will withstand strong solutions. Capacity 4 gals.; for general spraying purposes. 2-foot extension with each machine.

No. 9-B, brass tank, \$9.98.

No. 9-D, galvanized tank, \$6.75.

Parcel post add 18c to each.

Brown's Auto-Spray No. 50

This sturdy little machine is entirely suitable for spraying on a small scale. It is particularly recommended for use where weight is a factor as when women folk or youngsters help out with the spraying. Built exactly the same as our 4-gallon sprayers, except tank is 2½-gallon capacity; 18-inch extension with each sprayer.

No. 50-B—Brass Tank.....\$8.75

No. 50-D—Galv. Tank.....5.80

Parcel post add 10c to each.

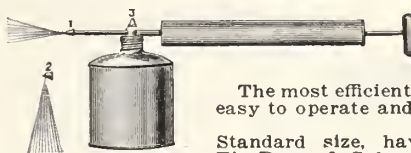


Brown's New Era Sprayer



A practical brass sprayer of 3 quarts capacity. The best sprayer for applying cattle sprays and is so made that the entire sprayer can be taken apart for cleaning with only simple tools. Price, \$3.45; postpaid, \$3.55.

Robertson Sprayer



The most efficient hand sprayer ever offered; easy to operate and gives a continuous spray.

Prices

Standard size, having one-quart container. Tin Pump & Galvanized Iron Container, \$1.25
Brass Pump and Copper Container..... 2.25

All sprayers have brass tubes and fittings. If to go by parcel post, add 10c to each.

Spray Pump Accessories

NON-CLOG JR. BRASS NOZZLE—Either straight or 45 degree angle. 80c each.

No. E1—Auto Pop Nozzle, complete.....\$1.50

No. 136—Bordeaux Nozzle..... .75

No. 149—Leakless shut-off..... 1.00

No. K1—2 ft. Brass Extension..... .60

No. L1—Brass Elbow..... .35

All Nozzles Postpaid.

No. 42—8 ft. Bamboo. Price with stop cock (not mailable)..... 3.60

No. 44—10 ft. Bamboo. Price with stop cock (not mailable)..... 4.00

No. 46—12 ft. Bamboo. Price with stop cock (not mailable) \$4.40

Spray Hose, ½ inch, best made, all rubber, 18c per ft. Postpaid.

½ inch clamps for same, 5c each; 50c dozen. Postpaid.

½ inch Hose Couplings, 25c pair. Postpaid.

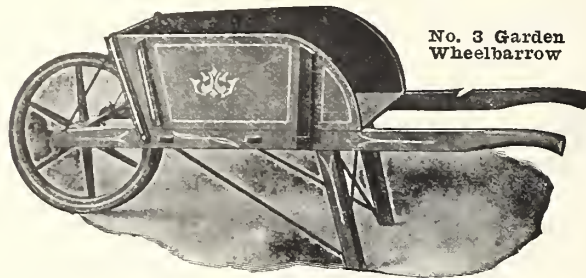
½ inch Male fittings, No. 137, 25c. Postpaid.

½ inch Female fittings, No. 137, 25c. Postpaid.

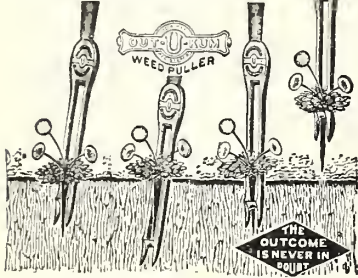


Non-Clog Jr. Nozzle.

M. - S. LAWN AND GARDEN ACCESSORIES

No. 3 Garden
WheelbarrowThe "OUT-U-KUM" WEED PULLER
An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the ENTIRE ROOT, with little or no clinging soil.



Price, 75c. Postpaid, 85c.

and cultivator made of pressed steel, very strong. Price, 50c, postpaid.

Hazelwood Hand Weeder—An old favorite and an indispensable tool in the rock garden. Price 50c, postpaid 55c.

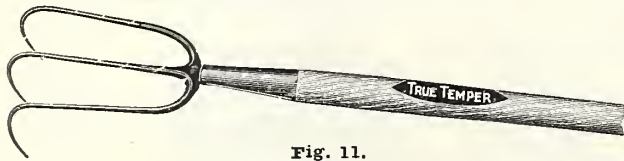


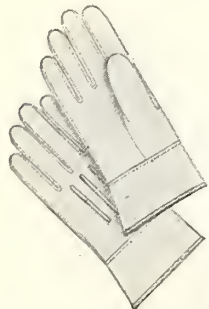
Fig. 11.

Eureka Garden Weeder—Fig. 11. 50c. Postpaid, 57c. Same with 2 ft. handle, 60c. Postpaid, 68c. 4 ft. handle, 75c. Postpaid, 83c.



Fig. 13

\$1.10. Postpaid, \$1.20. Style K—4 ft. handle, 3 heavy tines and V-blade, \$1.10. Postpaid, \$1.20.



Work Gloves, All Leather, Soft as Kid—Easy to Wear

Made from special imported hides processed to render them amazingly soft and pliable. Permit almost barehand freedom yet provide complete all-leather protection. Ideal for garden and similar uses.

Dirt-proof, Durable, Washable. Four sizes: "Small" and "Medium" for Women, "Medium" and "Large" size for Men. Price 75c a pair—2 pairs for \$1.40. This is the first time we have ever offered an all-leather garden glove with these special qualities at such a low price.

Kneeling Pads—Found most convenient and serviceable for many uses, in gardening and housekeeping. Made of best Para rubber. Price, 75c postpaid.

No. 3 Wheelbarrow, for Garden and Farm Use—A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 feet 9 inches long; 2x1½ in. wheel; 20 in. diameter; 6 spokes. Price, \$7.50; set up, \$8.00. Boys or Ladies' Size—\$5.00; set up, \$5.50. Farm Size—\$9.00; set up, \$9.50.



Fig. 17
Asparagus Knife—Which makes a fine weeder as well. Fig. 17. Price, 40c; Postpaid, 47c.

Lang's Hand Weeder—Handiest tool on earth. 25c, postpaid 30c.

Garden Set (Homeland)—Consisting of trowel, weeder



Fig. 21

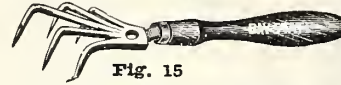


Fig. 15



Fig. 24.

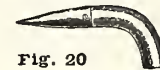


Fig. 20



Fig. 23.

English Weeding Fork, Fig. 23—Solid steel. Note convenient handle. Price, 75c postpaid 82c.

Garden Fork or Weeder—Fig. 24. 50c. Postpaid, 57c. **Steel Trowel—Fig. 21.** Drop Shank, best made. \$1.00. Straight Shank, \$1.00, either \$1.10 postpaid.

No. 212 One-Piece Trowels—50c. Fig. 22. Postpaid 55c. **No. 215, 7-inch Trowel—Price 25c; postpaid 30c.** **Transplanting Trowels—Fig. 19.** Price, 25c; postpaid, 30c.

Excelsior Weeder—Fig. 15. Price, 20c; postpaid, 25c. **Dibbles—Bent wood handle. Fig. 20.** 65c. Postpaid, 73c. **D. Handle Dibble, 85c; postpaid 93c.**

Cleveland Weed Puller—Fig. 10 Valuable for extracting weeds from the lawn. Price, \$1.00. Postpaid \$1.08.



Fig. 19

Fig. 22.



Fig. 10.

Sure-Grip Weed Puller
Has No Equal for Pulling Weeds of All Sizes

It is the only weeder made that will pull very small weeds without mutilating the lawn. Speedy in operation as it automatically releases the weed as soon as pulled. It will not clog. Fitted with a 38-inch handle. \$1.50, postpaid \$1.60.



Kut-M-Off Weeder

This weeder meets the demand for a cheap and practical tool for cutting off dandelion and other weed roots. It is strong and well made. It is more efficient than anything of similar nature now on the market. Fitted with 42-inch natural handle. Price, 50c; postpaid 60c.

Planet Jr. Lifetime
Bulb Trowel

For transplanting or for planting bulbs or plants nothing is quite as good as this slim, sharp little trowel which slides so easily into the ground. And notice the way it is shaped. The neck which is usually the weakest point is here the strongest. The handle is fastened in with a pin and can't come out.

Price 70c; postpaid 75c.

Planet Jr. Lifetime
Trowel

Perfectly balanced they fit lightly and naturally in the hand without tiring the fingers or wrist. The steel is light weight but very hard and will wear far longer than the ordinary trowel. The neck is specially designed and welded and guaranteed never to bend or break. And the comfortable wooden handle can't come out.

Price 60c; postp'd 65c.

Planet Jr. Lifetime
Weeder

You can lay aside all the little hand cultivators and weeders you have ever used once you try this efficient little tool. You can scratch around even the smallest and tenderest plant, weeding and cultivating at the same time. The saw-teeth drag out the weeds or cut them off at the roots. It is hardened and tempered to stand a lifetime of wear.

Price 60c; postpaid 65c.

M-S FARM AND GARDEN TOOLS

Where Postpaid Rate is not mentioned,
add 15 cents to each Tool.



Fig. 23

Fork—True Temper, 5-tined Manure—D handle. Heavy. \$2.50.
Spading Fork—True Temper—4-tined. Fig. 23. D handle. \$1.75.
Spading Fork—True Temper. Old English, 4-tined, much heavier than the regular. Price, \$2.50.
Forks—3-tined Hay Fork, \$1.75; 4-tined, long handle, \$1.75.



Fig. 4

Hoes—True Temper—Fig. 4. Crucible steel. 6½ and 7½ in. \$1.25; 1-pronged, weeding hoe, 60c; 2-pronged, 70c. Heart Shaped. Price, \$1.25.
Hoe, English Scuffle—6 in. \$1.00. No handle. Handle, 35c extra.
Potato Hook, or 4-Pronged Hoe—Price, \$1.25.
Heavy Grubbing Hoe—Price, \$1.25; with handle, \$1.65.
Grubbing Hoe, One-Piece—Extra strong. No. DE38. \$1.25.



Fig. 22

Shovel, Round Point Long Handle—\$1.75.
Shovel, Round Point, Ladies' Size—\$1.50.
Shovel, Sq. Point D Handle No. 3—\$2.25.
Spade, D Handle—\$1.75. Fig. 22.
Spade D Handle Nursery—Double Strap, very heavy, \$4.50.
English Turling Spades or Sod Lifters—Heart Shape—No. 1, 8x9½ blade, \$6.50; No. 2, 8½x10½ blade, \$7.00; No. 3, 9x11½ blade, \$7.50.
Dock Cutter No. 39-D—\$1.50.

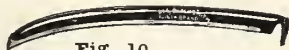


Fig. 10

Scythes, Grass—English Waldron, 36 and 38 inches long. Price either size, \$2.60.
Scythes, Grass—30, 32 and 34 inches long. Fig. 10. Price, \$2.00.
Scythes, Weed and Bush—18, 22, 26, 28 inches long. Price, \$2.00.
Scythes, Grass—Imported. Riveted back. 32, 34, 36 in., \$2.75.
Snaths No. 2—Special railroad, extra heavy construction, designed for heavy duty; has a heavy loop bolt and wing nut easily tightened by hand. Price, \$2.00. No. 1 Lighter construction, \$1.75.

Whetstones—Carborundum, 35c. Talacre Stone, 25c each.



For postage add
7c to each.

GRASS HOOKS or SICKLES

Long Handle Grass and Weed Sickle—Light, strong, durable. The blade 13 in. long, 2¼ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge. Price, \$1.25. Postpaid, \$1.33.

Lawn Queen Grass Hook—Fully polished, best material, detachable handle, \$1.00. Postpaid, \$1.10.

No. 2—English Grass Hook. Riveted back. Price, 75c. Postpaid, 85c.

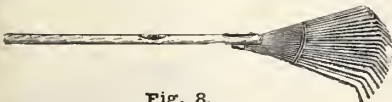


Fig. 8.

TRUE TEMPER BROOM RAKE

A general outdoor broom for lawns, gravel paths and gardens—is a practical necessity for every residence. Price, \$1.00; postpaid, \$1.10. Fig. 8.

JAPANESE BROOM RAKE

Price 75c, 85c postpaid; larger size, \$1.25, postpaid \$1.35

THE LAWNCOMB

Guaranteed Unbreakable.

Light, strong, flexible, unequalled for cleaning lawns.

Price, 18 in. \$1.00; 24 in. \$1.25.

The Lawncomb

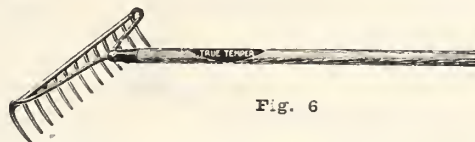


Fig. 6

Rake, True Temper—Bow pattern. Fig. 6. 14-tooth, \$1.25.
Rake, True Temper—Regular pattern, 16 tooth. Price, \$1.00.
Rake, Wire Lawn—Heavily reinforced, best made, 24 teeth. \$1.00; 46 teeth, \$1.50; 24 teeth self cleaning, \$1.75.
Rake, Lawn—Ole Olsen. All wood, 26 teeth. \$1.00.
Rake Leaf—All Wood, 24 teeth, three steel braces. 90c.
Best Grade Mattock—Price, \$1.50; with handle, \$1.90.
Mattock, Pick and Ax Handles—Price, 40c each. P.P. 50c.



Fig. 21

Bush Hook, Best Grade—Fig. 21. Price, \$2.00.

Bush Hook, Little Giant—Lighter than one shown in Fig. 21, but with cutting edge on back. Price, \$1.75.

Best Grade Pick—Price, \$1.50; with handle, \$1.90.

Best Grade Ax—Guaranteed article. \$2.25.

Best Grade Hatchets—Half Pattern. Best quality. Each \$1.75. Postpaid \$1.85.



Fig. 18.

Planet Jr. Edger, No. 2—Fig. 18. Made of best material, extremely simple and easy to operate. Price, \$1.75; postpaid, \$1.85.

True Temper Turf, or Lawn Edger—For edging walks. Price, \$1.25; postpaid, \$1.35.



Fig. 15

Graswip—The new double edged grass and weed cutter that does away with tiresome stooping. Use it—swing freely and note how rapidly the double-edged blade cuts on both the forward and backward stroke. Made of forged tool steel. Price, \$1.00; postpaid \$1.10. Fig. 15.

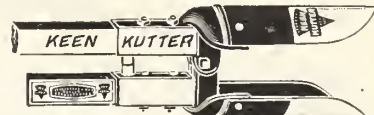
SPEEDY CULTIVATOR



No need to lift the Speedy Cultivator up in the air and drive it into the earth as with a hoe. That's why it cuts in half the time of cultivating. Just push it in close under low-growing plants, then pull it back . . . the four highly tempered tines are sharp and curve at just the right angle to "bite" into the soil and break it up with an easy, pulling motion. Price, \$1.00. P.P. \$1.10.

POSTHOLE DIGGER

Highest Grade Crucible Steel Blades, 9 in. deep, 5 in. wide; select ash handles with graduation marks in ft. burned on, from 2 to 4 ft.; will dig hole 6 in. in diameter. Price, \$2.25.



"Keen Kutter" Posthole Digger



NORCROSS CULTIVATORS AND WEEDERS

Three sizes and prices. 5-pronged, 4 ft. handle, \$1.15; 3-pronged 4-ft. handle, 85c; "Mid-get," 9-in. handle, 45c. Postpaid, \$1.30, 95c and 55c.

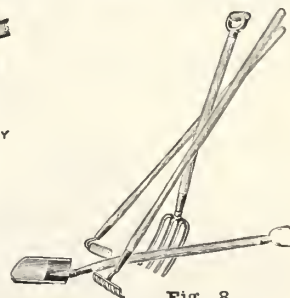


Fig. 8

Garden Tool Set—True Temper Ladies' and Children's—Fig. 8. Not toys, but tools that will do and stand the work. Price, \$3.00. Single tools: Shovel, 90c; Rake, 60; Hoe, 75c; Spading Fork, \$1.00. Postpaid, Set \$3.20; for separate tools add 10c each.

M.-S. PRUNING TOOLS, ETC.

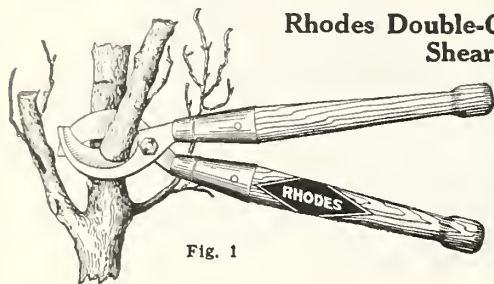


Fig. 1

Rhodes Double-Cut Lopping Shears

Fig. 1. For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely clean, perfect cut; 26 inch handle.

Price, \$5.00.

Parcel post wt. 5 pounds.

"Keen Cutter" Pruning Shears—Curved blade and hook. Forged steel; polished and tempered, ratchet tightening knot; extra heavy and long steel ferrules; handles riveted through ferrules and tang; 24-inch hardwood handles. Price, \$2.50. Parcel post weight, 4 lbs.

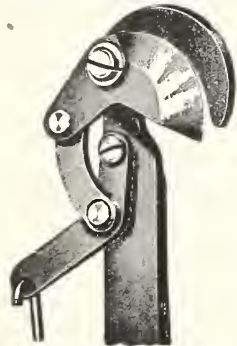
Draw Cut Pruning Shears—Made of best material, very strong and clean cutting. No. 5400—24-in. handle, \$3.25. Parcel post weight, 5 lbs.

"KEEN KUTTER" TREE PRUNER—Made of best material. 10 ft. Price, \$2.50; 12 ft. \$2.75. Not mailable.

RHODES LONG-HANDLED PRUNER

Twelve foot handle; equipped with pulley. Price \$12.00.

Express or freight only.



No. 1 Head in Detail.

TELEGRAPH TREE PRUNER—To be attached to pole. Price \$1.50; postpaid \$1.60.

THE RHODES POLE PARAGON PRUNING SAW—For cutting large limbs high up; adjustable to any angle; 10-foot pole. Price, \$4.00. Express or freight.

Pruning Saws—Made of the very best material, either double or single cutting edge, \$2.00. Fig. 8. Weight, 2 lbs.

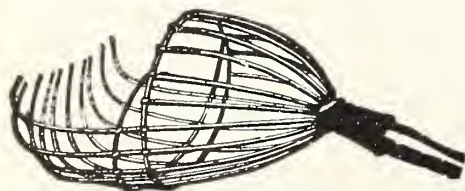
Pruning Knife, No. 1—Wood handle. \$1.00, postpaid.

Budding Knife, No. 778W—American make, 1 blade white handle, \$1.00, postpaid.

GRAFTING WAX— $\frac{1}{4}$ lb. 15c; $\frac{1}{2}$ lb. 25c; 1 lb. 40c.

Fruit Picker

The Best Fruit Is Always Out of Reach



ripe fruit. Price, 60c; postpaid 70c.

As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole. Price 40c; 50c postpaid.

Peerless—For the careful picking of ripe fruit this is the best; it has no sharp end of wire exposed to injure

DAIRY ACCESSORIES



SO-BOS-SO FLY KILLER (Improved)—Guaranteed to kill flies and lice on horses, hogs, cattle and mules. Price, \$1.60 gallon.

BAG BALM—For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as Bag Balm. Price, 60c, postpaid.

KOW KARE—The great cow tonic and conditioner. Price 65c; postpaid 73c. $2\frac{1}{4}$ lbs. \$1.25; postpaid \$1.34.

FLOATING DAIRY THERMOMETER—30c each, postpaid 35c.

CARBOLA—See page 81.

B-K—See page 80.

PRATTS S. H. SODIUM HYPOCHLORITE. See page 80.

Rubber Plant Sprinklers

No. 28a—8 oz. angle neck. See Fig. 3. \$1.00. Postpaid, \$1.07.

No. 28—Straight neck. See Figure 2. \$1.00. Postpaid, \$1.07.

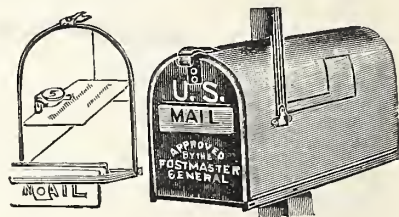
Brooms and Brushes

Plain Corn Brooms, extra quality... .75
Bass Push Broom, 16 inches. (See cut) 1.25

Handles for Push Brooms.....25c each

Rural Mail Boxes

22-Gauge Galvanized Steel. This box conforms with the latest Government rules; is much larger than the old style, for the holding of parcel post packages. Drop in end of box for depositing mail without unlocking; Red Signal raised by mail carrier to show that he has deposited mail in the box. Price, \$3.50; postpaid, \$3.80.



Household Thermometer—75c.

Hotbed Thermometer—Brass point. Price, \$3.00.

Self-Regulating Hothouse Thermometer—Best grade, \$7.00.

For Parcel Post, add 10c to each.

Hot Bed Mats, Sash and Glass

Hotbed Mats—Burlap covered, 40x76 size, covers one sash. \$1.75 each; 76x76, covers two. \$3.00 each. Special prices in quantity. Express or freight.

Hotbed Glass—Box of 90 panes, 8x10. \$2.50. Price subject to change. Express or freight.

Hot Bed Sash—Made to hold either 24 or 28 8x10 panes. These sashes are grooved so that the panes slide in and butt one against the other. \$2.25 each. Price subject to change. Express or freight.

Putty Bulbs—For applying liquid putty. Fig. 22. Price, \$1.50. Parcel post wt. 1 lb.

Peerless Glazing Points—The finest glazing points on the market. Per box of 1,000, 75c. Parcel Post weight, 1 lb.

Mastica Machine—For distributing mastica, etc. Made of heavy zinc. Price, \$2.75 (by mail, 10c extra).

Mastica—For glazing greenhouses. One gallon will cover about 300 running feet. One gallon \$2.40. Weight 18 lbs.

Wall Nails—For fastening climbing vines; equipped with a soft metal clasp which holds the vine against the wall. 1 inch, 45c dozen, postpaid 50c; 100, \$2.75, postpaid \$2.85; $1\frac{1}{2}$ inch, 60c dozen, postpaid 65c; 100, \$3.75, postpaid \$3.95; 2 inch, 75c dozen, postpaid 85c; 100, \$4.50, postpaid \$4.75.

ASBESTOS TORCH

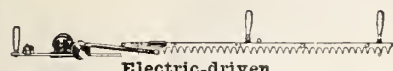
This is the most practical satisfactory device yet found for burning caterpillars, worms and other tree pests. Price, 60c; postpaid, 70c.



Fig. 22

"Little Wonder" Hedge Trimmers

Electric and Hand Models



Electric-driven
REVOLUTIONIZES HEDGE TRIMMING

Made with 25- 40- and 60-inch cutting blades.

The "Little Wonder" Hedge Trimmer cuts every variety of hedge grown 5 to 10 times faster than the old fashioned hand shear method.

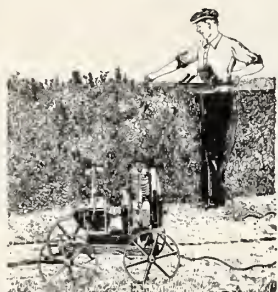
Makes hedge cutting a positive pleasure.

The "Little Wonder" Hedge Trimmers have long cutting bars which make a quick and even cut.

Made strong and sturdy—built to last many years.



Top Cut
Hand-operated



Prices

Junior Electric—25-inch cutting knife.....	\$ 65.00
Senior Electric—30-inch cutting knife.....	106.50
Senior Electric—40-inch cutting knife.....	114.00
Hand Operated—30-inch cutting knife.....	25.00
Hand Operated—40-inch cutting knife.....	27.50
Hand Operated—60-inch cutting knife.....	35.00
Portable Electric Generator.....	250.00

Ask for full descriptive circular.

Grass and Sheep Shears—All Postpaid

No. 355—Fine polished, 5½ in. shears. 75c.

No. 3074—Imported 5½ in. steel shears, full polished. Price, \$1.25.

No. 3075—The best shears; made of high tempered English steel. \$2.00.



Fig. 1.

No. 600 Wiss Grass Shear, best quality with offset handles. Fig. No. 1. Price, \$1.50.

No. 117—Pexto, very much like above. \$1.00.

The New Wiss-Klip Grass Shears



These new style "Wiss-Klip" Grass Shears are equipped with adjusting nuts and swinging shackle which enables the blades to be spread apart for resharpening. For resharpening loosen one nut, swing back shackle and spread blades apart.

No. 700—Length over all, 12 ins. Price, \$1.50.

Grape Protecting Bags



If put on during the period when grapes are forming they will save many times their cost in the amount of fruit they will save from insects, rot, birds, etc. All ready to fasten. No. 2 the right size for our domestic grapes. Price, 10c doz.; 50c 100; \$4.25 1,000. Prices on larger bags on application.

Parcel Post weight, 2 lbs. per 100; 15 lbs. per 1,000.



Fig. 21.

Raffia

Fig. 21. For tying asparagus, and anything in the garden. Price, 1b. 30c. postpaid 37c. Hanks containing about 2½ lbs.; 5 lbs. or more, at 25c 1b. Special price on larger quantities. Postage extra.

Green Raffia, 85c 1b., postpaid 92c.

Red Tape for tying asparagus, 1,000 yards, \$2.25—postpaid, \$2.35.

M.-S. Water Ballast Lawn and Tennis Court Rollers

No. 601—Diam. 14 in., length 24 in., weight empty 70 lbs. Filled with water, 175 lbs. Price, \$17.00.

No. 602—Diam. 18 in., length 24 in., weight empty 85 lbs., weight filled with water 265 lbs. Price, \$20.00.

No. 603—Diam. 24 in., length 24 in., weight empty 110 lbs., weight filled with water 420 lbs. Price, \$23.00.

No. 604—Diam. 24 in., length 32 in., weight empty 130 lbs. Filled with water 566 lbs. Price, \$26.00.

No. 607—Diam. 14 in., length 15 in., weight empty 50 lbs. Price, \$12.00.

CAST STEEL ROLLER BEARING LAWN ROLLER

No. 501—Diam. 15 in., 2 sec., wt. 175 lbs., length 15", \$20.00

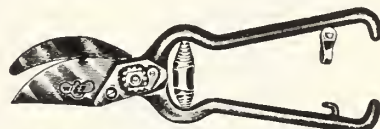
No. 504—Diam. 20 in., 2 sec., wt. 250 lbs., length 20", \$26.00

No. 507—Diam. 20 in., 2 sec., wt. 300 lbs., length 24 in., \$32.00.

Hand Pruning Shears—All Postpaid

No. 109 Wiss Hand Pruner—Strongest and best pruner made. \$3.00.

No. R-65, 9-inch—Full polished with ratchet and double flat brass spring. Price, \$1.75.



No. R-70-9. 9-inch—Similar to illustration, with adjusting nut and regulating ratchet, steel blades of extra quality steel. Price, \$1.85.

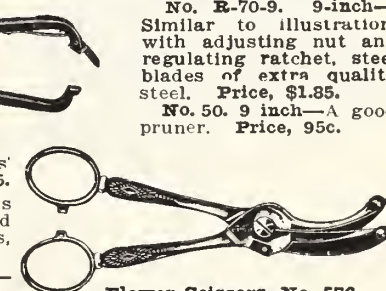
No. 50. 9 inch—A good pruner. Price, 95c.

No. 14. 6 inch—Ladies' pruner; full polished. \$1.25.

No. C-4. 7½-inch—Wiss flower thinning Shear. Used in cutting flowers, grapes, fruit, etc. \$1.25.

Flower Scissors No. 575—Nickel plated. \$1.50.

No. 576—Imported, best finished, sure to hold flower after being cut. Price, \$2.00.



Flower Scissors, No. 576.

Wiss Hedge Shears

POSTPAID



These shears are made to meet the demand for a better-balanced, easier cutting, and more durable hedge clipper. 8, 9 and 10-inch also furnished with wooden handles.

Size.....	6½	7½	8	9	10
Price, each.....	\$2.75	\$3.00	\$3.25	\$3.50	\$4.00

Solid Steel Hedge Shears—All equipped with notch; the notch is very useful in heavy trimming or lopping. Handles bolted on, cannot come apart. Prices postpaid.

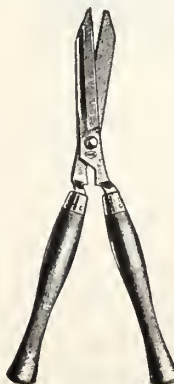
8-inch.....	\$2.25	9-inch.....	\$2.50
10-inch.....	2.75	12-inch.....	3.50

Ladies' Hedge Shears—5½ inch cut. Price, \$1.50, postpaid.

Lawn Shears, Imported—Two wheels, 9-inch blade, long handle for cutting on narrow borders, under fences and shrubs. Price, \$4.50. Parcel post weight, 5 pounds.

Border Shears—Same as above, but the blades are shaped vertical for trimming borders. Price, \$4.25. Parcel post weight, 5 lbs.

Hy-Lo Grass Shears No. 595—Similar to above, with long handles, but much lighter. Will do efficient work. Price, \$1.75; postpaid, \$1.85.

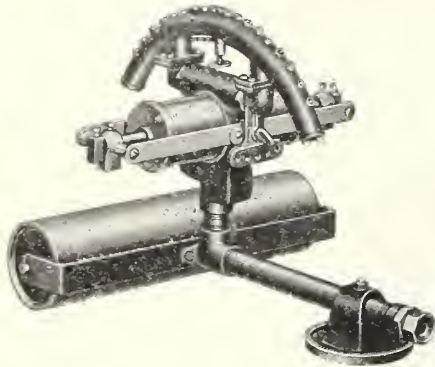


Hedge Shears—Postpaid.

SKINNER SYSTEM SPRINKLERS

COMPLETE CATALOG ON REQUEST.

Border Mist Sprinklers



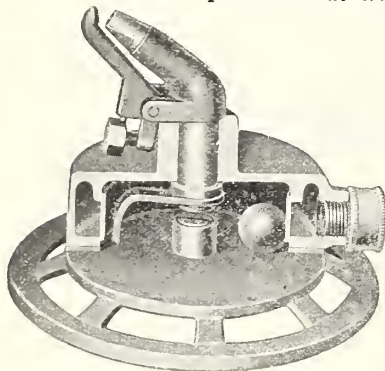
Rain Wave Automatic Sprinkler

This miniature Skinner System weighs only 17 pounds, yet does the work of a sixty-foot line automatically. The sixteen silver stream nozzles in the arch wave slowly back and forth distributing that fine, even spray which has made silver stream nozzles famous.

With simple, easily made adjustments, you can water from 10 x 60 to 60 x 60 feet or have a stationary sprinkler. Price, \$35.00, postpaid.

Big Square Sprinkler

The Sprinkler That Waters a Square.



A slowly revolving nozzle, giving uniform coverage over large area. The water whirling in the base carries with it a sturdy steel ball which, at each revolution, gives a slight motion to the sprinkling nozzle.

Into the stream from the nozzle projects the end of a pivoted deflector arm. The position of this deflector is varied in the stream by means of a cam. Thus, the throw is lengthened and shortened at such points as will result in watering a square.

In a very simple way this durable device achieves the much desired result of watering corners, covering square areas and fitting the area watered to the more usual type of needs.

The stream is well broken up and gives uniform coverage. The slow, constantly moving stream avoids over watering.

A stable iron base, rust-proofed with heavy zinc coating. Swivel hose connection. Slowly revolving nozzle. Adjustable deflector. All sprinkling parts brass.

No gears. No small fragile parts. The only fast moving part is a 7/8-inch steel ball, which revolves freely in the base chamber. Waters a square. Size can be controlled by reducing pressure or by deflector adjustment.

On 35 lbs. pressure, uses 7 1/2 gallons per minute. Covers a 50 ft. square. On 50 lbs. pressure uses 10 gallons per minute, covers a 60 ft. square.

Weight 5 lbs. each. Diameter 7 in. Height 4 1/2 in. Price, \$7.50, postpaid.

Fountain Sprinkler

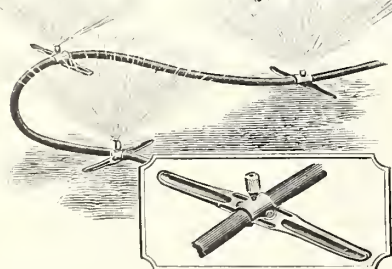
Made of Heavy Brass.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, \$1.00, postpaid.

Half-Circle Sprinkler, 85c, postpaid.



MIST-O-SPRAY



New Lawn Sprinkling Method. This remarkable new system of sprinkling lawns, shrubs and flowers is simple, practical and inexpensive. For the 25 ft. garden hose, a set of three Mist-O-Spray units placed at intervals of 8 feet. For 50 ft. hose place five units at intervals of 10 feet.

Set of 3 Units.
Per set...\$2.95
Postpaid.

Complete with 25 feet of hose, ready for use, \$6.50, postpaid.



These fine one-way sprinklers last a lifetime and will spread their mist-like spray over a space 16 feet wide by 16 feet long, or can be narrowed down to even 30 inches in width.

The ideal sprinkler along walks or shrubbery where one-way watering is desired. The handle on the end permits directing the spray to any angle or



completely reversing it.

Total length 15 ft. Weight 20 lbs. Express shipments recommended. Price, \$12.50, f. o. b. Baltimore.

LAWN MIST—Made in Senior or Junior sizes, covers a width 16 ft. constructed like Border Mist, except nozzles, which spray both ways. Prices, \$12.50 and \$8.00, f. o. b. Baltimore, Md.

The Peacock

The Peacock Sprinkler is 12 1/2 feet long and can be used singly or in tandem. Each sprinkler covers a space 15 x 50 ft. Price, \$15.00, f. o. b. Baltimore.

THE PEACOCK JR. is 7 feet long, doing the same work as the larger one on a smaller scale. Price, \$8.50, f. o. b. Baltimore.

GARDEN IRRIGATION

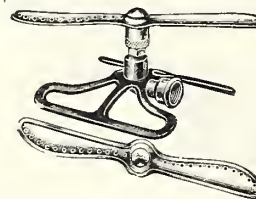
Full Instruction Sheet Furnished.

Irrigation lines cover 50 ft. wide at 30 lb. pressure. Require 7 gallons per minute per 100 feet. Complete and ready to use.

Prices on Request.

If automatic oscillator is wanted, \$25.00 additional.

Aero Mist Sprinkler



This new Sprinkler represents our latest contribution to scientific sprinkling by the rotary method. The brass revolving vane is shaped like a propeller and as it spins about forces the water in a mist-like spray over an unusually large area. The heavy green enameled iron base is sturdily constructed and the Sprinkler may be moved about by means of the hose without shutting off the water. Price \$1.40, postpaid \$1.50.

Rain King Sprinklers

STANDARD—Price \$3.50, postpaid.

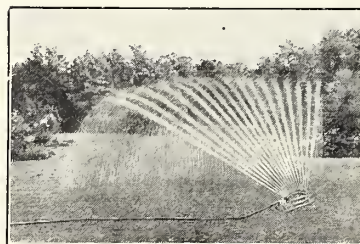
GIANT RAIN KING—Like Standard, but is four feet high and has four nozzles. \$12.50; postpaid, \$12.75.

MAJESTIC—Stands 15 1/2 high; very sturdy; has bird bath attached. Price \$5.00, postpaid.



Waterfan

An Automatic Oscillating Machine



It is a Real Rain Making Machine consisting of a little turbine water motor closely connected to a short (18") Distribution Pipe and mounted on a small triangular sled-like frame.

The prominent features of the Waterfan are:

Its ability to cover a rectangular area.

Its sled-like frame, for easy moving.

Its rain-like distribution of the water.

Price No. 7 covers space 40x45 ft. \$16.50, postpaid.

PLANET JR. FARM AND GARDEN TOOLS

Are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.

Planet Jr. No. 4 Combined Seeder and Cultivator

This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It



then becomes a single wheel hoe. Price, \$18.00, 50 lb.

No. 4-D (As a Seeder only), \$14.25, 40 lb.

No. 25 Combined Seeder, Double and Single Wheel Hoe

As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 ins. high. Price, \$21.50. Weight 61 lbs.

Planet Jr. No. 300 Drill Seeder No. 300 Seeder—A new tool especially adapted for beans, corn and peas. Price, \$20.00. Hopper capacity, 4 qts.



No. 300 Seeder

The Planet Seeder Attachment No. 35

Will pay for itself in a short time because it saves seed by sowing accurately. It is very easy to operate and drills almost any kind of garden seed from the smallest up to peas and beans. The shoe is adjustable for any depth desired and the coverer swings free. Attaches to any Planet Jr. Hand Cultivator. Sent postpaid. Price, \$6.50.

Star Pulverizer, Weeder and Cultivator

The star discs break up the soil and the oscillating blade—which works forward and backward—pulverizes and levels the soil, and at the same time cuts off the weeds directly beneath the surface. Can be used right after a rain to cultivate, and will not leave the ground in a lumpy condition. 6 lbs.

Price, \$3.00.

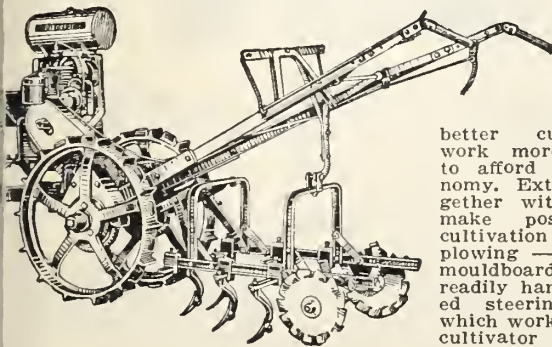


Planet Jr. Motor Cultivator

The Planet Jr. Motor Cultivator is built to a wider range of work, to do faster and better cultivation, to work more easily, and to afford greater economy. Extra weight together with ample power make possible heavy cultivation and real plowing—a six-inch mouldboard plow being readily handled. Patented steering control which works like a horse cultivator (pressing on the right handle to turn

to the right, etc.), make possible fine, close cultivation.

Complete catalogue and price on request.



Planet Jr. No. 12 Double and Single Wheel Hoe Combined

A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price, \$10.75. 33 lbs.

No. 11 PLANET JR.—Like the above, but in addition has one pair 4½ inch hoes, two 3-tooth rakes and two 5-tooth rakes. Price, \$13.75. 39 lbs.

No. 13 PLANET JR.—Only equipped with one pair of 6-inch hoes. Price, \$8.00. The No. 12 is the most popular tool. 28 lbs.

Planet Jr. No. 16 Single Wheel Hoe

These single wheel hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos.

16 and 17 have the same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and

strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm. Price, \$9.00. 24 lbs.

No. 17 Single Wheel Hoe.

Planet Jr. No. 17 Single Wheel Hoe—Same as No. 16, but has no rakes or leaf lifter. Price, \$7.75. Weight 24 lbs.

No. 17½ PLANET JR.—Equipped with hoes and

leaf lifter. Price, 6.75. Weight 21 lbs.

No. 18 PLANET JR.—Only equipped with one pair 6-in. hoes. Price, \$5.75. Weight 19 lbs.

No. 19 PLANET JR.—Similar to above, but has higher wheel (15 inch), equipped with cultivator tooth, sweep, plow and 5 prgd. cultivating attachment. Price, \$6.00. Weight 21 lbs.

No. 119 Planet Jr. Garden Plow and Cultivator

This new member of the "Planet Jr." family is equipped so completely that it will meet all the needs of the ordinary garden. It has a 24-inch wheel 1½ inch wide. The plow is very strong, the cultivator tooth is good and wide, the 3-pronged Cultivator is excellent for breaking of the soil, the center tooth of same is removable, the scuffle hoe fine for weed cutting and the handles very strong and adjustable to suit adult or child.

Price, complete, \$4.75

Weight 17 lbs.

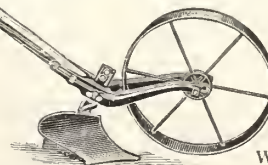


"Firefly" Garden Plow

Very useful for small gardens. Will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seed can be opened and covered. Chicken rakes find it of great advantage in plowing up the scratching yards.

Weight, 14 lbs. Price, \$4.25.

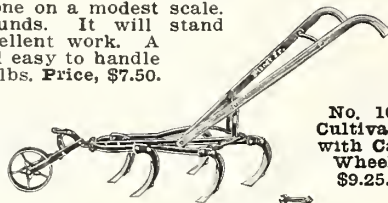
72-PAGE PLANET CATALOG FREE Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.



No. 100-D Planet Jr. Plain Cultivator

We offer this cultivator with the object of filling a definite need where lands are light or where farming is done on a modest scale. It weighs but 42 pounds. It will stand hard usage and do excellent work. A steady running tool and easy to handle and adjust. Weight, 42 lbs. Price, \$7.50.

No. 107D—Similar to the No. 100D but has seven teeth and lever expander. Price, \$11.00; with wheel, No. 107, \$12.75.



**No. 100
Cultivator
with Cast
Wheel,
\$9.25.**

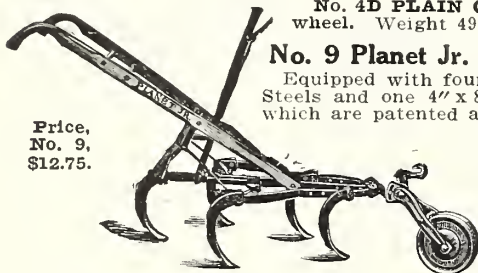
No. 4D PLAIN CULTIVATOR, less wheel. Weight 49 lbs. Price, \$8.50.

No. 9 Planet Jr. Plain Cultivator

Equipped with four 3"x8" Cultivator Steels and one 4"x8" Cultivator Steel, which are patented and beveled; especially hardened.

Tool is adjustable to any useful width by use of the lever expander, and every part is perfected to make the tool acceptable to the farmer.

Price,
No. 9,
\$12.75.



Same tool without wheel, \$10.75.

No. 4 Planet Jr. Horse Hoe and Cultivator

This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivating. Price, with steel wheel, \$12.25; without wheel, \$10.25.



No. 4 Horse Hoe

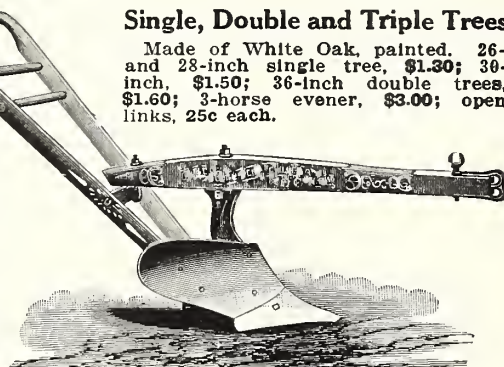
No. 9 PLANET JR. HORSE HOE AND CULTIVATOR—Identical with the above, but has lever expander. Price, with steel wheel, \$14.25; without wheel, \$12.25.

No. 7 PLANET JR. HORSE HOE AND CULTIVATOR—Same tool as No. 4 and No. 9, but is also equipped with depth regulating level wheel. Price, \$15.75.

Single, Double and Triple Trees

Made of White Oak, painted. 26- and 28-inch single tree, \$1.30; 30-inch, \$1.50; 36-inch double trees, \$1.60; 3-horse evener, \$3.00; open links, 25c each.

U-Bar Steel Double and Single Tree, complete. 36" Double and 28" Single Trees, \$3.00 per set.

Oliver Pattern Wood and Steel Beam Plows

In ordering, mention "Wood" or "Steel" beam, right or left-hand.

	Wood Beam Plow	Steel Beam Plow	Shares	Slip Shares	Lands	Mould-boards	Wood Beams
No. A ...	\$10.50	\$10.50	\$0.25	.....	\$0.55	\$1.40	\$3.85
No. B ...	12.75	12.75	.30	.....	.75	2.05	3.85
No. 10 ...	16.00	16.00	.45	.60	.80	2.25	3.85
No. 13 ...	18.00	18.00	.55	.65	.95	3.00	3.85
No. 19 ...	19.50	19.50	.60	.70	1.00	3.25	4.15
No. 20 ...	21.00	21.00	.65	.75	1.05	3.40	4.15
No. E ...	24.00	.....	.70	.80	1.10	3.75	4.15
No. 40 ...	24.00	24.00	.70	.80	1.10	3.75	4.15

Single Handles, \$1.00 each. Rounds, 25c a pair.

Bolts for Mouldboard, Landside, Shares and Joints, 5c each.

Prices for plows include extra Share and Wrench. The following are extra: Wheel, complete, \$2.00; Joinder, complete, \$4.50; Steel Beam Joinder, \$4.50. State if Wood or Steel Beam.

We can also furnish the "Syracuse" and other leading plows and the repairs. Prices will be furnished upon application.

Planet Jr. Twelve-Tooth Harrow Cultivator and Pulverizer

No. 90, complete, \$17.00; No. 90-B, without pulverizer, \$14.00; No. 90-D, without pulverizer or wheel, \$11.00.

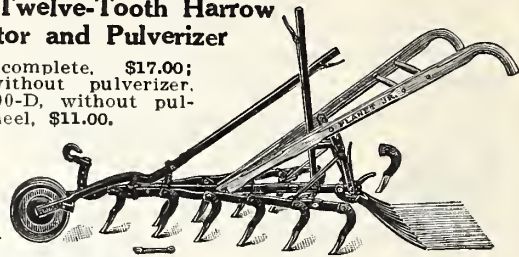
SHOVEL PLOWS

Single Shovel Plow, \$4.20.

Double Shovel Plow, \$4.60.

Triple Shovel Plow, \$6.60.

Blades for same, 16c lb.



Planet Jr. Cultivator Teeth.

1 1/2 x 8 in. Steels .....	.17	3 x 8 in. Steels .....	.22
1 3/4 x 8 in. Steels .....	.18	4 x 8 in. Steels .....	.27
2 1/4 x 8 in. Steels .....	.20		

"Planet Jr." 7-inch Hind Shovel, 35c; "Planet Jr." 8-inch Hind Shovel, 40c. Bolts for all Cultivator Teeth at 5c each.

Boss Plows and Repairs

PLOWS		SHARES	
1 Rig....Comp.....	\$ 6.50	Cabbage	\$0.30
2 Rig....Comp.....	7.50	1 1/2 and 2 .....	.35
3 Rig....Comp.....	8.50	2 1/2 and 3 .....	.40
4 Rig....Comp.....	9.50	No. 20 .....	.50
MOULD BOARDS		MISCELLANEOUS	
Cabbage	\$0.35	Land Sides	\$.55
1 1/2 and 2 .....	.70	Clevises .....	.40
2 1/2 and 3 .....	.80	Bolts (All) .....	.05
No. 20	1.30	Standards	2.75
Board and Share	3.00	Handles (Complete)	1.50
Double Shares	1.00	Handles (Single) .....	.65
		Beams	1.00

Chattanooga Plow and Repairs No. 65

2-Horse R. H. S. Beam Plow	\$20.00
Gauge Wheel	2.00
Joinder	4.50

SHARES		MISCELLANEOUS	
No. 65 Solid	\$0.65	Land Sides	\$1.15
No. 65 Slip .....	.85	Joinder Pl. ....	.30
Extra Slips .....	.20	Mould Board	3.40

Barker Weeder, Mulcher and Cultivator

BARKER
WEEDER-MULCHER-CULTIVATOR

Barker, Jr.

Baby No. 6 is the best small garden weeder and mulcher on the market. The very low price makes it attractive. Weeds and mulches a strip 6 inches wide. Retail price, \$7.25.

No. 8 1/2 Barker Jr. weeds and mulches a strip 8 1/2 inches wide. Has three shovels, and leafguards. Price, \$7.95.

The Barker

No. 10-D—Strong, and most useful size. Lower knife cuts ten-inch strip. Favorite for large gardens and with truck growers. Equipped with three shovels, and leafguards. Price \$10.60.

No. 11-D—Especially adapted for use where rows are fifteen inches or more apart. Weeds and mulches eleven-inch strip. Has three shovels, and leafguards. Price \$11.75.

No. 12-D—Best size where rows are two or three feet apart. Weeds and mulches a strip one foot in width. Has three shovels, and leafguards. Price, \$12.60.

RUSTIC CEDAR BIRD HOUSES

\$1.75 Each

Postpaid \$1.85

We can supply
18 Different Styles



\$5.00 per Set of 3

Postpaid \$5.16

We can supply
6 Different Sets

There are several things to be said in favor of Rustic Bird Houses, particularly of the sweet smelling Jersey cedar, which is a disinfectant in itself. If you are sufficiently interested, nail up a Rustic house alongside a brightly painted one, and see which they will select. It is the "back to nature movement" among the birds. Where did they nest before civilized man inhabited this country? In hollow trees, woodpeckers and their kind boring their own in dead trees. Now such suitable places are fast disappearing under the pruning and slashing axe of man.

These bird houses are very artistic in design and unique in rustic construction. They are the kind birds will use and will enhance the surroundings of any home. When ordering specify the kind of birds the houses are intended for.

As illustrated:

No. 62—Blue Bird.

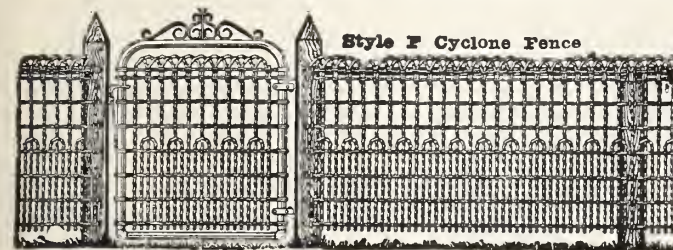
No. 61—Wren.

No. 60—Robin Shelter.

Send for circular for complete line.

NORWOOD AND AMERICAN SANITARY WIRE FENCING

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Style F Cyclone Fence

No. 600 is the most popular sanitary wire fence. Pickets are all Nos. 9 and 12 heavily galvanized wire. The line wires are spaced 1 1/2 inches apart at bottom, 3 inches at top, making fence absolutely chicken tight. Regular heights are 36 inches, 42 inches and 48 inches.

Price per lineal foot, No. 600, 36 in., 16c; 42 in., 18c; 48 in., 22c. Full 10 or 20 Rod Rolls less 10 per cent.

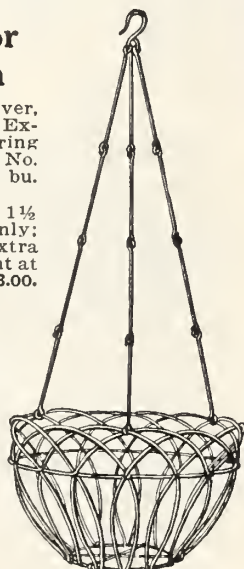
Three-foot Ornamental Walk Gates to match, \$4.25 each. 3 1/2 ft. 5 per cent and 4 ft. opening 10 per cent higher.



Storage or Ash Can

Galvanized, deep cover, rat and damp roof. Excellent for storing grain or dry mash. No. 67, capacity, 2 1/2 bu. Price, \$2.50.

No. 161, capacity 1 1/2 bu., for ashes only; constructed extra strong reinforcement at top and bottom. \$3.00.



Wire Hanging Basket

Wire Hanging Baskets

Help make the city beautiful by installing wire hanging baskets and window boxes filled with beautiful flowers. Made of good heavy wire. Painted green. See illustration.

Baskets, 8-in., 25c; 10-in., 35c; 12-in., 45c. Parcel Post weight, 2 lbs. each.

Fencing—Stock, Field and Poultry

"AMERICAN" POULTRY AND STOCK FENCE

"American" Poultry and Rabbit Fence—For poultry yards, gardens, orchards and yards; it is a great favorite. 165 running feet, 48-in., \$7.25; 58-in., \$8.00.

Banner Poultry Fence:

36-in. 165 ft.	\$5.25
48-in. 165 ft.	6.25
60-in. 165 ft.	7.25
72-in. 165 ft.	8.25

Field Fence:

726 x 6. 165 feet.....	\$6.00
726 x 12. 165 feet.....	4.50
1047 x 6. 165 feet.....	9.00
1047 x 12. 165 feet.....	6.50

KEEN KUTTER POST HOLE DIGGER—See page 64.



Perfection Flower-Bed Guard

Fits any shape or size of flower-bed. No posts required. Cut to any length. Bottom of pickets left straight to be inserted in the ground. Made in three heights. Price per lineal foot: 16-in., 9c; 23 in., 11c; 28 in., 12c.



FIG. 1

Wire Trellis Fig. 2

Just the thing for climbing plants and flowers. Cut to any length; fits any porch. The most inexpensive practical trellis made. Furnished in three widths. Price per lineal foot: 18 in., 7c; 24 in., 9c; 30 in., 11c.

Norwood Rubbish Consumers

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

No. 2—Height 22 in.; diameter 15 in.; weight 7 lbs. Price, \$1.75.

No. 3—Height 20 in.; diameter 18 in.; weight 9 lbs. Price, \$2.25.

No. 4—Height 31 in.; diameter 21 in.; weight 12 lbs. Price, \$3.50.



FIG. 2

Diamond Mesh Poultry Netting

Put up in rolls of 150 running feet. 2 in. No. 20 1 in. No. 20
Galvanized after weaving. Wire. Wire.

1 foot	\$1.00	\$2.40
18 inch	1.40	3.15
24 inch	1.75	4.10
36 inch	2.50	5.50
48 inch	3.25	7.35
60 inch	4.05	9.25
72 inch	4.85	11.25

2 inch less than roll lots 1 1/2 c square ft. 1 inch, 2 1/2 c. Price subject to change without notice. Poultry Wire Staples, 10c per lb.

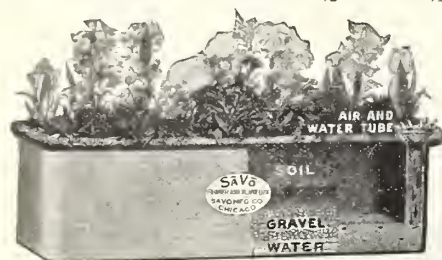
Galvanized Steel Fence Posts

	Length Feet.	Wgt.—Lbs.	Price.
Line Post	5	7.4	\$.66
Line Post	6	8.4	.72
Line Post	7	10.	.82
Line Post	8	11.4	.97
10 End Post	7	51.	3.85
10 End Post	8	59.	4.35
10 Corner Post.....	7	75.	5.70
10 Corner Post.....	8	86.	6.15
Ball Tops for Line Posts.....			.30
Ball Tops for End and Corner Posts.....			.50
Driving Caps for Line Posts.....			.56



less excessively over-watered, there is no drip. No staining of paint or disfiguring in any way.

	Length.	Width.	Depth.	Each.	Postpaid.
Flower Boxes.....	24 ins.	8½ ins.	6¼ ins.	\$1.50	\$1.60
Flower Boxes.....	30 ins.	8½ ins.	6¼ ins.	1.75	1.90
Flower Boxes.....	36 ins.	8½ ins.	6¼ ins.	2.50	2.65



SaVo Boxes

Keep Plants Healthy
the Year Round.

The most efficient
durable and artistic
plant box made.

Finished in Alumi-
num or Green.

	Height.	Width.	Length.	Each.	Postpaid.
Model A	8 ins.	9½ ins.	23 ins.	\$3.00	\$3.15
Model B	8 ins.	9½ ins.	29 ins.	4.00	4.15
Model C	8 ins.	9½ ins.	35 ins.	4.50	4.65
Model D	8 ins.	9½ ins.	41 ins.	5.00	5.25

The Perfecto Flower Box

The Perfecto Flower Box has many indorsements for growing all kinds of beautiful flowers and ferns. The reason for this is the air-circulation provided for in the construction beneath the plants, which prevents souring from excess watering.

The finish is green enamel. Each box shipped or delivered is packed in an individual carton to insure preservation of finish and safe delivery to purchaser.

With stand it makes an ornament for any home.

Length.	Depth.	Width.	Box Alone.	Complete With Stand.
20 inches	6 inches	7 inches	\$1.00	\$3.50
26 inches	6 inches	7 inches	1.50	4.25
32 inches	6 inches	7 inches	2.00	5.00
38 inches	6 inches	7 inches	2.50	5.75
44 inches	6 inches	7 inches	3.00	6.50

Japanese Hull-less Pop Corn

There is hardly a home in the country where during winter popping of corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for planting or popping.



Lb. 15c. Special price in quantity.

M.-S. All Wire Corn Popper—25c. Parcel post weight, 1 lb.

*Your
soil tester
is now on the
market!*



\$2.50

Know Your Soil

For the correct determination of the soil reaction, the Hellige Soil Tester is the least expensive and simplest outfit now available on the market. It is extremely handy and is the only tester which employs permanent, reliable comparison colors, which do away with the troublesome charts with printed colors that fade and easily get dirty, thus leading to inaccurate readings. Using the Hellige Soil Tester means forgetting worries about lost color charts, as the colors are hand painted on the surface of the porcelain Testing Block and permanently burned in. Sent postpaid.

The Success Plant Box is made of strong galvanized iron, neatly enameled in dark green. It is so constructed that the watering is easy, the drainage ample, the air circulation perfect.

Plants thrive wonderfully in these boxes. For window or porch use they are ideal, as, un-

THE CYCLONE SEED SOWER

Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we recommend the CYCLONE.

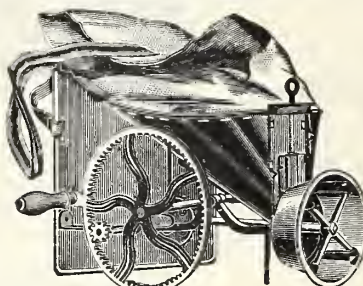


Fig. 1.

Price, \$2.25, postpaid.

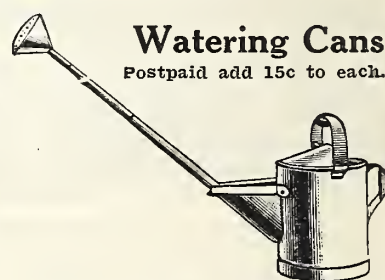
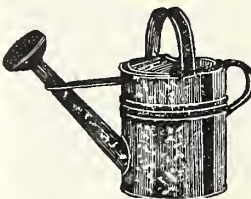


THE SOWER THAT
SCATTERS EVENLY

CAHOON SEED SOWER

STEEL HOPPER AND GATE BRASS DISCHARGER. Fig. 1. Price, \$5.00, Postpaid.

HORN SEED SOWER. Price, \$1.00, Postpaid.



Watering Cans

Postpaid add 15c to each.

—Made of heavy galvanized iron, removable rose. 4-qt. 65c; 6-qt. 75c; 8-qt. 90c; 10-qt. \$1.00; 12-qt. \$1.25; 16-qt. \$1.50.

HEAVY TIN, JAPANESE RED WATERING POTS (English Pattern)—3-qt. \$4.75; 4-qt. \$6.00; 6-qt. \$6.50; 8-qt. \$7.00; 10-qt. \$7.50.

LONG SPOUT WATERING POT (Round Pattern)—Equipped with two copper faced roses—one fine, one coarse, with each can. Can shaped round, made of heavy galvanized iron. Fig. 2.

4-quart. \$4.50 10-quart. \$5.60
6-quart. 4.80 12-quart. 6.10
8-quart. 5.25 16-quart. 6.50

OVAL (FRENCH PATTERN) WATERING POT

6-quart. \$5.60 10-quart. \$6.50
8-quart. 6.00 12-quart. 7.00

Baskets, Chains, Back Bands, Etc.

Picking Baskets—½ bushel size with handles, \$5.25 dozen; without handles, \$4.75 dozen.

White Oak Baskets—Side handled. 1-bu. size, \$1.00; 2-bu. size, \$2.00.

Pea Bags—Used by Anne Arundel farmers for bringing peas and beans to market. 15c each. For quantities write for price.

Strawberry Boxes—1-qt. size, 90c per 100; postpaid, \$1.00. Prices per 1,000 furnished on application.

Trace Chains—7 ft., straight link, hook or ring. Price, \$1.25 pair; postage 25c extra. No. 2, cheaper grade, \$1.00.

Cow Chains—Tieing out. No. 1 20 ft. 60c; No. 00 heavier grade 20 ft. 75c; No. 00 30 ft. \$1.00; postpaid 10c extra.

Back Bands—Cotton duck with snaps 42 in. 75c each; 48 in. 90c; postpaid 10c extra.

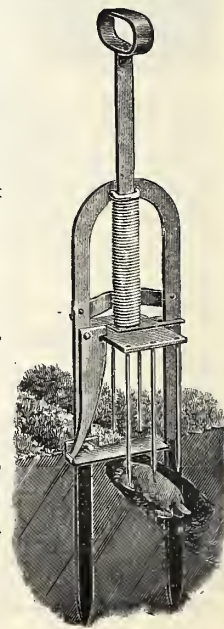
Little Giant Mole Trap

The simplest, safest and surest mole trap ever invented. Self-setting. Price, \$1.00, postpaid \$1.10.

MOLO—A preparation that will clear your lawn of moles and field mice in a few nights. Pkt. 25c. Not mailable.

MOLOGEN Mole Killer—See page 49.

CYANOGAS for Moles—See page 81.



Amazing New Line of BUCKEYE INCUBATORS

The World's Best Incubators

We Carry a Full Line of
Incubator and Brooder Repair Parts.

The new line of Buckeye Incubators affords a range of capacity from 75 to 576 eggs. This meets the demand expressed today by users of domestic incubators.

Cypress Cabinets—All of the machines are constructed of cypress—the best material ever found for incubators. It will not warp. It will not crack nor pull apart. It will not retain the odors of hatches.

Beautiful Finish. Finished in natural grain with the most

durable of varnishes, Buckeye Incubators have the appearance of beautiful furniture.

Heavy Insulation—The four larger models have double walls with heavy insulating material between, assuring retention of heat with the utmost fuel economy. These models also have darkening doors to provide the dark egg chamber favorable to efficient incubation.

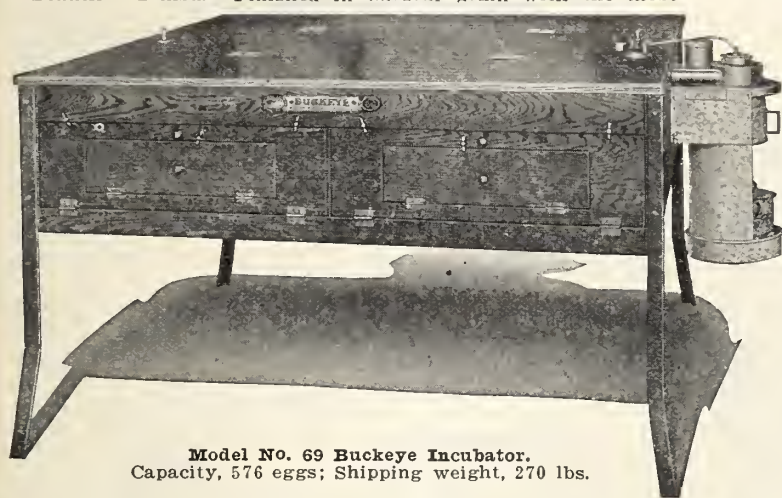
Patented Thermostat—The Buckeye Patented All-Metal Thermostat insures absolute regulation of temperature. It eliminates the possibility of break-down which is likely to happen with wafer-type thermostats; for wafers may become dead through the evaporation of the liquid in them. This may occur in the midst of a hatch and ruin the whole setting of eggs. There is no such hazard with the Buckeye All-Metal Thermostat. It is absolutely reliable.

Improved Heater—The Buckeye heating tank is built of heavy copper. An air vent is placed in the end of the tank farthest from the boiler. This eliminates air bubbles and insures perfect circulation of the water. In the new Buckeye Incubator there can be no trouble and loss from air pockets in the heater.

Underwriters' Label on all models, except No. 65, as a warranty against fire hazard.

All Buckeye Incubators, except No. 65, are now equipped with Buckeye Automatic Egg Turners. Only a moment is required to turn all the eggs.

Egg Tester and Thermometer furnished FREE with each Buckeye Incubator.



Model No. 69 Buckeye Incubator.
Capacity, 576 eggs; Shipping weight, 270 lbs.

FINISHED IN FIVE SIZES

No. 65—75 Egg Capacity.....	\$18.50
No. 66—143 Egg Capacity.....	39.50
No. 67—286 Egg Capacity.....	57.75
No. 68—416 Egg Capacity.....	76.50
No. 69—576 Egg Capacity.....	97.50

BUCKEYE COLONY BROODERS

Buckeye Blue Flame Colony Brooder



An ideal oil-burning brooder for heated or warmly constructed brooding houses. Has a powerful burner; a self-feeding oil container, holding one gallon of oil. Galvanized steel hover supported by cast-iron legs, and equipped with "Diafram" Heat Conveyor which distributes heat uniformly and provides perfect ventilation. No complicated levers, valves or thermostats. No "oil-leveling" mechanism to contend with. Simple, easy and economical to operate.

No. 27-A	No. 80	No. 81
200 Chicks	350 Chicks	500 Chicks
Diameter 34"	Diameter 42"	Diameter 52"
Shipping weight 40 lbs.	Shipping weight 50 lbs.	Shipping weight 60 lbs.
Price, \$14.50	Price, \$15.50	Price, \$16.50

Where a greater amount of heat is desired, we can furnish the 350-chick and 500-chick brooders with giant burners under Model 29-A respectively. Price, No. 29-A.....\$18.50

New Coal-Burning Brooder

Yes, a brand-new Buckeye Coal-Burning Brooder now offered to poultry raisers for the first time. A Coal-Burning Brooder with 1,200 chick capacity—a big 60-inch hover—a coal capacity

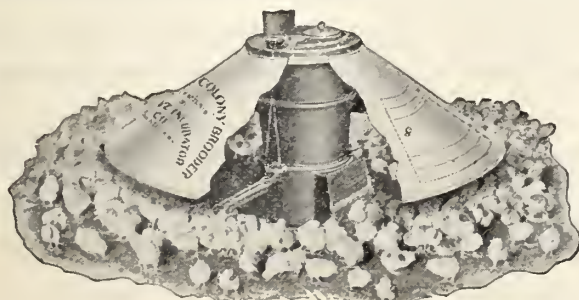
of 70 pounds. It's a brooder that gives an abundance of heat no matter how cold the weather may be. It's a Brooder that will hold the fire all night. It's a Brooder you don't have to worry about—a brooder so simple, dependable and automatic in its operation that it requires only the minimum of attention. Considering how it is built and what it does, combined with its amazing low price, it is the greatest brooder value in the world today.

And there are three smaller sizes of Improved Buckeye Coal-Burning Brooders. All of them have all the features of the large size Buckeye. All of them are equal to it in chick saving ability. All of them will pay for themselves by the EXTRA chicks they save.

The Greatest Value Ever Offered in Coal-Burning Brooders.

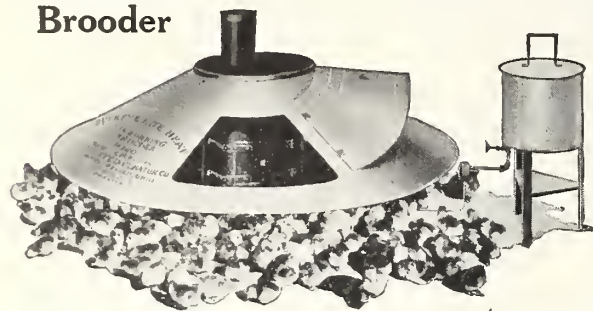
	No. 117	No. 118	No. 119	No. 120
Chick capacity	350	500	1000	1200
Height of Stove	20"	20 7/8"	23 7/8"	28 1/4"
Diameter of Base	11"	12 13/16"	13 1/2"	13 1/2"
Diameter of Grate ..	8 1/4"	9 3/16"	10 9/16"	10 9/16"
Diameter of Canopy ..	42"	52"	56"	60"
Coal capacity	23 1/2 lbs.	36 lbs.	58 lbs.	75 lbs.
Smoke Pipe	4"	5"	5"	5"
Shipping weight	75 lbs.	95 lbs.	130 lbs.	154 lbs.
Price	\$15.00	\$17.50	\$22.50	\$26.50

DRAFT EQUALIZER for all Stoves—See page 77.



BUCKEYE COLONY BROODERS OIL BURNING AND ELECTRIC

Buckeye "Rite-Heat" Oil-Burning Brooder



WICKLESS AUTOMATIC WAFER CONTROL

Newly designed and perfected, large capacity, oil-burning brooders. The improved stove has two baffle plates, greatly increasing heating efficiency. The newly designed burner has an exclusive new flame spreader that throws the flame down and out to the sides of the stove. And the perfected "Rite-Heat" has a special double pre-heating chamber, thoroughly heating the air before it reaches the burner—an improvement that enables the flame to burn continuously even at a very low rate. The flame won't flare up. It won't go out. The new smoke pipe cap and a back draught check damper prevent back draughts from reaching the flame.

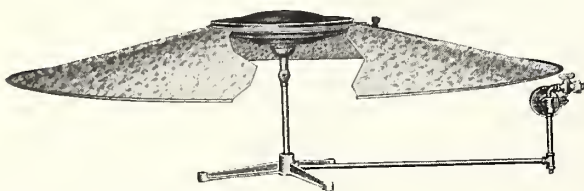
The new "Rite-Heat" burner bowl has an overflow pipe for any excess oil that may be supplied to the burner.

The improved thermostatically controlled Heat Regulator insures ideal temperature under the hover. It has a new sight feed showing at a glance how much oil is being delivered to the burner. The **Revolving Hover** is a remarkable labor-saver and a marvelous heat deflector.

"Rite-Heat" saves chicks where other oil-burning brooders fail. Safe; dependable; durable; economical.

	No. 103	No. 104
Capacity	500	1200
Diameter of Canopy	52"	62"
Shipping Weight	108 lbs.	118 lbs.
4-Gallon Metal Oil Container.		
Prices	\$29.50	\$33.00

A Wonderful New Brooder GAS BURNING

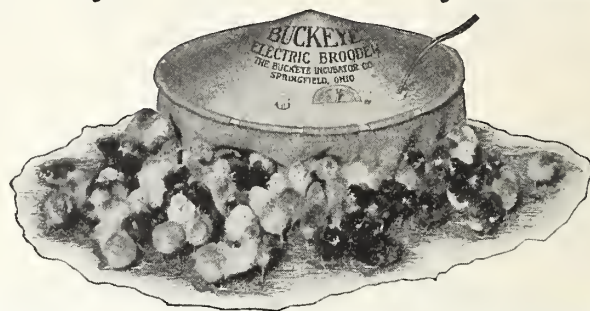


The brooder for suburban poultry raisers also for the commercial producer for chicks coming from the battery brooders. This is the simplest, most efficient, most economical Colony Brooder ever built for use in sections where gas is available. It uses a surprisingly small amount of gas. And the flow of gas is automatically regulated to give exactly the brooding temperatures the poultry raiser wants.

Prices

300-Chick Capacity—47-inch canopy.....	\$10.50
600-Chick Capacity—56-inch canopy.....	12.00

Buckeye "Electric" Colony Brooder



The Buckeye Electric Brooder gives a maximum of brooding efficiency without the disadvantages common to other brooders of this type. Generates a remarkable amount of heat with comparatively small current consumption. The heating coils are a special grade resistance wire. **Designed for 100 to 125 volts A. C.** It has the exclusive Buckeye Double "Diafram" Heat Diffuser; assures a more uniform distribution of heat under the hover. The control switch is thermostatically operated. Contact points won't stick. They won't burn out. Buckeye assures perfect ventilation that prevents concentration of moisture under the hover. That's important.

Ideal for poultry raisers who want to brood comparatively small flocks of chicks in warm brooder houses.

	No. 90	No. 91	No. 92
Chick Capacity.....	50	100	200
Diameter of Canopy.....	26"	36"	46"
Shipping Weight.....	19 lbs.	49 lbs.	75 lbs.
Prices.....	\$14.50	\$19.75	\$24.75

Adjustable Roof Saddle

FOR COAL BURNING BROODER STOVES

The new Adjustable Roof Saddle is adjustable to care for any pitch roof; is furnished complete with stack and rain cap as illustrated. Made for two sizes of pipe—4" and 5", which should be specified in ordering. It is rust proof and rain proof, being made from heavy galvanized iron. Packed one to carton. Shipping weight, 11 lbs.

For 4" Pipe—Wgt. 7 lbs.....\$1.75

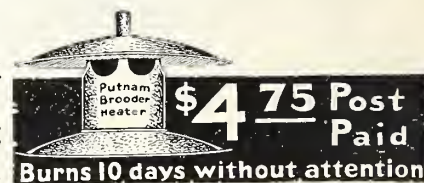
For 5" Pipe—Wgt. 7 lbs..... 1.75



The Putnam Brooder

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater.

The Putnam Brooder Heater is made of brass and galvanized iron. It is practically indestructible. Price of Putnam Brooder Heater Galvanized. \$4.75 postpaid. Illustration circular on request.



\$4.75 Post Paid
Burns 10 days without attention

WE CARRY A FULL LINE OF BROODER REPAIRS
See Following Page.

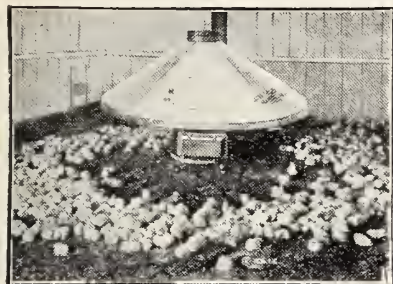
Guarantee

BUCKEYE Brooders are guaranteed to be exactly as represented and to do everything we claim for them. They are guaranteed to do anything that any other Brooder will do—and do it better. That's a pretty broad guarantee, but we mean every word of it. BUCKEYE Brooders are the greatest brooding devices ever invented and we are ready to prove it by permitting you to **WRITE YOUR OWN MONEY-BACK GUARANTEE**. We will permit you to try any BUCKEYE BROODER for 30 days under any kind of guarantee you care to write, and return your money without argument if you are not entirely satisfied.

Signed: THE BUCKEYE INCUBATOR COMPANY.

NEWTOWN COLONY BROODERS

Will Raise Every Raisable Chick—Ask Any Owner



"A Newtown Mother"

The Newtown Coal Burning Brooder has the reputation of being the most efficient brooder made. It needs no introduction to poultrymen. It was the first coal-burning, self-feeding, self-regulating colony brooder put on the market, having been longer in use than any other of its type. It is giving efficient service in every State in the Union and eleven foreign countries, and represents the modern up-to-date brooder in the highest form of development. It is durable, easy to operate, safe, economical and labor saving. There is no brooder on the market which can be compared in any way to this brooder. When you think of these features you can see what Newtown is. It cares for all your chicks regardless of weather conditions. It burns a good grade of soft coal satisfactorily, as well as hard coal. It holds the fire and does not require constant attention. You don't have to get up at night to see if your chicks have enough heat. They're always safe and warm with Newtown.

Model.	Wt. Crated.	Chick Cap.	Coal Cap.	Dia. of Hover.	Dia. of Grate.	Price.
No. 11	220 lbs.	Up to 500	43 lbs.	50 inches	11 inches	\$32.50
No. 12	306 lbs.	Up to 1000	62 lbs.	56 inches	15 inches	40.00

Newtown Brooder Repairs

In ordering Repair Parts always give NUMBER OF BROODER STOVE AND NAME OF PART WANTED.

Parts for Brooder							Parts for Brooder						
No. 7	PP.	No. 11	PP.	No. 12	PP.		No. 7	PP.	No. 11	PP.	No. 12	PP.	
Stove Legs (each).....	.25	\$.32	\$.25	\$.32	\$.25	\$.32	Canopy Complete with Bolts. Not mailable....	7.50	....	9.00	....	10.00	....
Base Plate	2.00	2.21	2.00	2.21	3.00	3.25	Plain Canopy Sections (each)	1.25	1.40	1.50	1.65	1.75	1.90
Fire Bowl	4.50	4.71	4.50	4.71	7.00	7.30	Canopy Section with Small Round Door	1.75	1.90	2.00	2.15	2.25	2.40
Ash Pit Door Frame.....	1.75	1.85	1.75	1.85	2.75	2.90	Canopy Section with Hinged Door	2.00	2.15	2.50	2.65	2.75	2.90
Ash Pit Door.....	.60	.70	.75	.85	1.00	1.10	Regulator Complete (Bar Type)	3.50	3.65	3.50	3.65	3.75	3.90
Ash Pit Door Hinge Plate .....	.25	.30	.25	.30	.25	.30	Thermostat (Bar Type)..	1.50	1.60	1.50	1.60	1.50	1.60
Grate Lugs (each).....	.25	.30	.25	.30	.25	.30	Adjusting Rod and Nut...	.25	.27	.25	.27	.25	.27
Sliding Center Grate—Center Only .....	.75	.85	.75	.85	1.00	1.10	Damper Arm with Discs and Fulcrum	1.25	1.32	1.25	1.32	1.25	1.32
Ring Grate only.....	1.25	1.35	1.25	1.35	1.75	1.90	Regulator Support .....	.25	.30	.25	.30	.25	.30
Shaker Handle .....	.25	.32	.25	.32	.25	.32	Pivot Bracket .....	.15	.17	.15	.17	.15	.17
Heater Top	3.50	3.75	....	....	....	....	Pivot Pin with Nut.....	.10	.12	.10	.12	.10	.12
Lower Draft Elbow .....	.75	.85	.75	.85	1.25	1.35	Regulator Tube .....	.10	.12	.10	.12	.10	.12
Magazine	4.00	4.31	4.50	4.31	6.00	6.25	Ash Pan (8x10x2½") and (10x12x2½") .....	.35	.45	.35	.45	.50	.60
Magazine Top .....	.75	.85	1.00	1.10	1.00	1.10	Standard Brooder Ther-mometer .....	.60	.65	.60	.65	.60	.65
Smoke Box All Complete..	2.00	2.16	3.50	3.66	5.00	5.20	Sand Ring .....	.65	.72	.65	.72	.80	.90
Ball Counter-balance Weight .....	.25	.32	.25	.32	.25	.32	Small Canopy Door.....	.50	.60	.50	.60	.50	.60
Observation Door .....	....	....	.25	.30	.25	.30	Damper Discs (per pair)	.25	.30	.25	.30	.25	.30
Smoke Box Clean-out Door .....	....	....	.20	.30	.20	.30	Stove Only (Brooder complete excepting canopy). Not mailable	18.50	....	24.50	....	31.00	....
Cast Ring Above Fire Bowl .....	....	....	2.50	2.75	5.00	5.50	Gas Heater (complete with regulator)	9.00	9.50	9.00	9.50	9.00	9.50
Radiator Bottom. Not mailable .....	....	....	5.00	....	10.50	....	Gas Heater without Regulator	4.50	4.75	4.50	4.75	4.50	4.75
Radiator Top Plate. Not mailable .....	....	....	4.50	....	7.50	....						
Soft Coal Ring .....	....	....	.60	.70	....	....					
Baffle Plate .....	.35	.42	....	....	....	....			
Metal Jacket	2.50	2.60	2.50	2.60	3.00	3.15							
Porcelain Knob for Small Canopy Door .....	.10	.12	.10	.12	.10	.12							
Swinging Wire Knob for Ash Pit Door .....	.10	.12	.10	.12	.10	.12							
Wire Knob for Magazine Top .....	.15	.17	.15	.17	.15	.17							

PRICES ON NEWTOWN REPAIR PARTS F.O.B. BALTIMORE, MD.

Descriptive Circular on Request

Buckeye Incubator Repairs

	PP.	
Regulating Bracket	.35	.40
Regulating Lever (with Damper)	1.00	1.07
Filler Caps (all incubators)	.25	.27
Damper Disc only	.15	.17
Boiler Jacket (upper half)	.50	.55
Boiler Jacket (lower half)	1.00	1.05
Drain Cap and Collar	.25	.27
Lamp Chimney	.50	.55
Lamp Burners, Single	.75	.82
Lamp Burners, Double	1.00	1.07
Lamp Bowls (all styles)	1.00	1.07
Underwriters Lamp Support, without Lamp	3.50	3.65
Metal Thermostat	2.00	2.10
Connecting Rod and Nut	.25	.27
Hot Water Tanks	....	....

STOVE PIPE

	3-inch	4-inch	5-inch
Galvanized	\$0.25	\$0.30	\$0.35
Black	.20	.25	.30

By Parcel Post add 10c to each elbow or joint of pipe.

Buckeye Brooder Repairs

Always order by number on old casting.

	No. 117	PP.	No. 118	PP.	No. 119	PP.
Ash Pit Door	\$0.65	\$0.72	\$0.75	\$0.82	\$1.00	\$1.10
Lower Regulator Arm	.65	.72	.75	.82	.85	.92
Upper Regulator Arm	1.00	1.10	1.25	1.35	1.40	1.50
Plain Half Grate	1.00	1.10	1.25	1.35	1.50	1.60
Shaker Half Grate	1.00	1.10	1.25	1.35	1.50	1.60
Grate Lock	.15	.20	.25	.30	.35	.40
Shaker Handle	.25	.32	.25	.32	.25	.32
Stove Lid	.50	.60	.50	.60	.50	.60
Check Draft Cover	.30	.35	.40	.45	.50	.55
Check Draft Protector	.25	.30	.35	.40	.40	.45
Canopy Ring	1.50	1.65	2.00	2.15	2.25	2.40
Baffle Plate	.75	.82	1.00	1.07	1.25	1.32
Lower Check Draft Lid	.15	.20	.15	.20	.15	.20
Wafer Thermostat, each	.40	.45	.40	.45	.40	.45
Canopy only. Not mailable	5.50	....	6.50	....	8.00	....

ELBOWS

	3-inch	4-inch	5-inch
Galvanized	\$0.30	\$0.30	\$0.35
Black	.20	.20	.25

BABY CHICK SUPPLIES

Royal Chick Feed Troughs

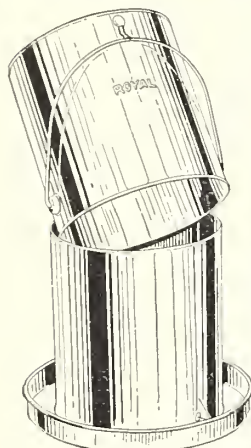


Extra heavy slide top made from best quality prime galvanized sheets accurately formed with dies; smooth turned edges on all holes. Deep enough to hold sufficient feed for growing chicks under brooders. Strictly a quality trough. Made in three sizes.

No. 212—Length 12 ins.; No. of holes, 16. 20c; postpaid, 30c.
No. 218—Length 18 ins.; No. of holes, 26. 25c; postpaid, 35c.
No. 224—Length 24 ins.; No. of holes, 34. 30c; postpaid, 45c.

No. 0 Royal Jar Fountains

This Fountain will fit any Mason Jar, and is intended for feed and water. 10c each; 3 for 25c; \$1.00 dozen, postpaid.



No. 7 ROYAL JAR FOUNTAIN—Same as above, but made of glass, to be used for feeding sour or buttermilk. 15c each, \$1.80 doz., postpaid.



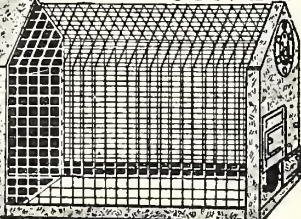
Royal Charcoal Tin Large Buttermilk Fountains

These fountains are made from 135 lb. charcoal tin and have two large openings, one on each side, with a piece of spring steel attached to two pieces of metal in the inside; in order to keep the milk from running out when the fountain is being filled, when the outer can is slipped down over the inner one, the pressure on these springs opens both holes and permits the feeding of all kinds of buttermilk. No reversing. Easily cleaned and filled.

No. 30—Size 1 Gal. Price, \$1.25; postpaid, \$1.35.



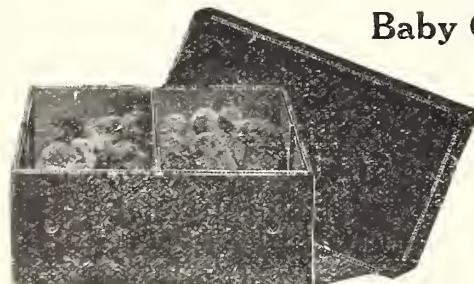
IT TELESCOPES!



PROTECTS THE CHICKS FROM HAWKS, RATS, WEASELS, VERMIN, COLD, STORM, ETC. SAVES TIME, WORK AND WORRY.

The "Lawn Park" is large and roomy, being 18 inches wide, 19½ inches high, and 48 inches long, with park extended. Price, \$3.00 each. Cannot be sent by parcel post.

Baby Chick Boxes

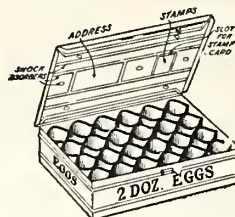


BABY CHICK SHIPPING BOX—Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.

	Size	Each	Postpaid	Doz.	Postpaid
25 chicks	9x11x5½	12c	19c	\$1.25	\$1.37
50 chicks	18x11x5½	15c	23c	1.50	1.63
100 chicks	18x22x5½	20c	29c	2.00	2.14

STOP CANNIBALISM—USE F & E CHICK PICK REMEDY

A common sense treatment for controlling and overcoming the vicious habit of Toe, Wing and Tail picking of chicks. Price, 60c per can, postpaid 67c.



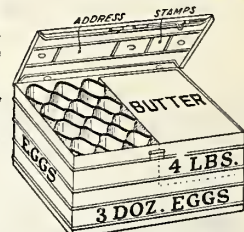
more money for your eggs.

Butter and Eggs safely carried by mail in same crate. Can also be used in sending other products. See Combination Crate.

Metal Egg Crates

Sell Eggs by Mail to Your City Friends

Indestructible; made for interchangeable shipments; lasts for years; pays for itself in a few shipments. Realize



Combination Crates

Metal Egg Crate Prices and Mailing Weights

	Empty.	Filled.	Price.	Postpaid
1 Doz. size all eggs.....	2 lbs.	4 lbs.	\$1.00	\$1.08
1½ Doz. size all eggs.....	3 lbs.	5 lbs.	1.25	1.34
2 Doz. size all eggs.....	4 lbs.	6 lbs.	1.50	1.60
3 Doz. size all eggs.....	4 lbs.	8 lbs.	1.75	1.85
4 Doz. size all eggs.....	5 lbs.	11 lbs.	2.00	2.11
6 Doz. size all eggs.....	6 lbs.	15 lbs.	2.50	2.62
9 Doz. size all eggs.....	8 lbs.	22 lbs.	3.25	3.39
12 Doz. size all eggs.....	10 lbs.	28 lbs.	4.00	4.16

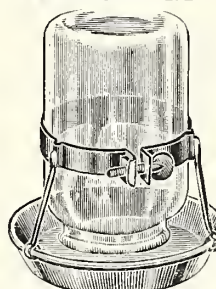
	Postpaid
No. 1—2 lbs. and 1 doz. eggs.....	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (3 2-lb. Containers).....	2.25
No. 5—12 lbs. (3 4-lb. Containers).....	2.50
No. 6—16 lbs. (2 8-lb. Containers).....	2.50
No. 7—24 lbs. (2 12-lb. Containers).....	3.50

HUMPTY DUMPTY EGG CARRIER

A very light, strong and convenient egg crate and carrier. Made of hardwood slats securely fastened. The lid with handle, springs into position when crate is filled. Collapsible. 12 doz. 75c. Postpaid 86c.

M.-S. EGG BOX—Fig. 8. This is an ideal box for the retail egg trade holding 1 dozen, presenting the goods to the customer in an attractive package. They knock down in very compact shape. 15c per doz., wt. 2 lbs.; \$1.25 for 125, wt. 11 lbs.; 250, \$2.00, postpaid \$2.37; 1,000, \$7.50.

FELKER'S HANDY ATTACHMENT



Pat. Applied For To Be Used With Any Make of Fruit Jar.

A perfect Feeder for sour milk, water, hard grain or grit. The container is made of aluminum, the only metal in which sour milk can be fed with safety. The Handy is adjustable. 25c each, postpaid 30c.

GAPE WORM EXTRACTOR—Price, 25c, postpaid
PHILADELPHIA POULTRY MARKER—Large and small. Price, 25c, postpaid. Fig. 5

POULTRY MARKER—In shape of pliers. 25c, postpaid. Fig. 6.

MOES POULTRY PUNCH—Fig. 8. The best punch made, easy to handle and will not bruise the web of the little chicks foot, 50c, postpaid.

PETTY'S VEST POCKET POULTRY PUNCH—For convenience it has no equal. 25c postpaid.

PETTY'S LEVER PUNCH—Closes hole to prevent bleeding. 50c postpaid.



Fig. 5

Fig. 6

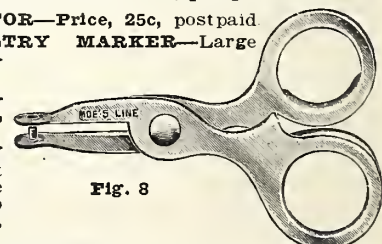


Fig. 8

ROYAL ALL-GALVANIZED FOUNTAIN

Made from heavy galvanized iron in 2 pieces. Top made with bail for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling.

No. 30—1 gal. Price 50c; postpaid 60c.



Modern Mash Hoppers and Feeders

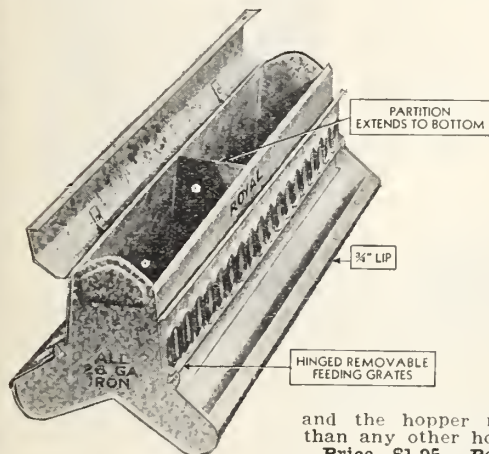
New Royal Mash Hoppers



The new improved line of Royal Dry Mash Hoppers is made from extra heavy galvanized prime sheets, all parts accurately stamped with dies and all seams double seamed. The hopper being much larger at the bottom than at the top prevents clogging of feed. Holes are punched in the back of the hoppers to permit hanging on wall in a convenient place. The fowls cannot roost on hopper.

When closed it is water-proof and rat-proof. Has adjustable screen and wire agitators; neatly trimmed with green stripe. Made in four sizes. The No. 84 is divided into five compartments, to allow for grit, charcoal and shell.

	Width.	Capacity.	Price.	Postpaid.
No. 83	24 inches	32 quarts	\$2.50	\$2.66
No. 84	36 inches	45 quarts	4.50	4.79



Royal Chick Hoppers

The New Royal Hoppers No. 263 made from 26-gauge galvanized iron are the heaviest on the market and include features as illustrated on the cut, all of which are found on no other hopper. The capacity is much larger

and the hopper much better made than any other hopper.

Price, \$1.95. Postpaid, \$2.15.

Royal Wire Top Chick Trough

Made from 26 gauge galvanized iron, stamped from one piece of metal with ends beaded for strength. Extra wide and made with wide lip on each side to prevent feed waste.

This carries a hinged wire grill which can be opened for filling or cleaning.

No. 204—Length 24 inch. Weight 3 lbs. Price 50c, postpaid 60c.

No. 306—Length 36 in. Weight 4 lbs. Price 70c, postpaid 80c.



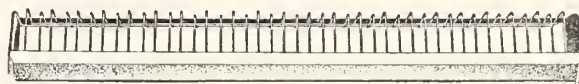
"Cyclone" Double Wall-Top Filled Chick Fountain For Growing Stock

(Sanitary—Cleanable)

This is the latest in chick and growing stock waterers. A snap arrangement makes it possible to carry fountain by handle when outer cylinder is in place over inner cylinder. This feature is very handy as you can carry fountain when filled and completely assembled. Escalloped edge pan keeps chicks out of water. Perch proof cleanable. Capacity 1½ gallons. Price, 90c each; postpaid \$1.00.

Double Grill Adjustable Feeder

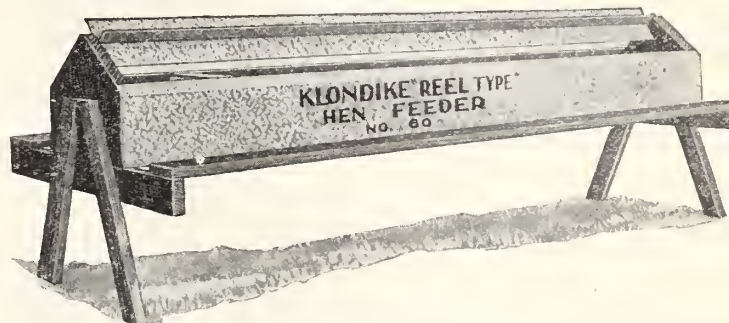
FOR BABY CHICKS OR GROWING CHICKS



This feeder is equipped with a double hinge wire grid which slides, making a minimum opening of one inch and a maximum opening of two inches. Can be used for all size chicks and mature fowls. When the little chicks outgrow the one-inch space, just slide wires to two-inch opening. No. 141—Length 40 inch. Shipping weight, 5 lbs. Price \$1.50, postpaid \$1.60.

Reel Type Mash Hopper

A WONDERFUL FEEDER AT A REMARKABLE PRICE

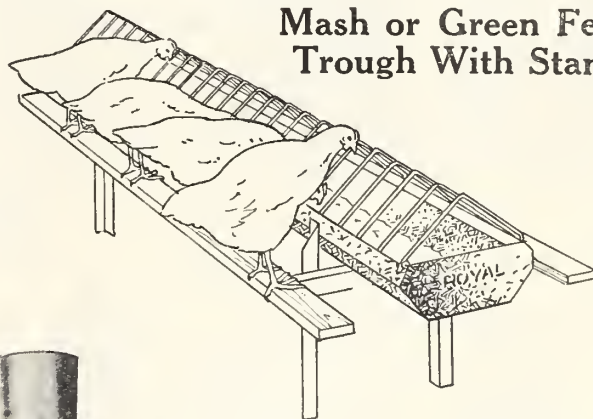


Built of heavy galvanized iron; five inches deep; twelve inches wide and five feet long; provides ten feet of feeding space. Equipped with revolving reel that prevents hens or chicks roosting on top or getting into the feed. Perch stands 14 inches above the floor and prevents hen scratching dirty litter into the mash.

Shipping weight, 25 lbs. Not available.

No. 60—Length five feet.....Each \$4.50

Mash or Green Feed Trough With Stand



Made from heavy galvanized iron and furnished with heavy wire hinged top trough. Easily removed from stand for filling or cleaning. Stand made from heavy galvanized angle iron with wood perches. Two sizes for grown fowls.

	Size.	Weight.	Price.	
No. 48	48 inch	17 lbs.	\$3.75	Not Mailable
No. 60	60 inch	21 lbs.	\$4.25	Not Mailable

Royal Draft Equalizer

The Royal adjustable Draft Equalizer made from heavy galvanized iron solves a problem for the user of coal-burning brooders as it helps to maintain a steadier fire on windy days. This prevents the coal burning too fast or wind blowing smoke back down the chimney, causing fire to smother. The added protection given by this simple device can hardly be estimated. The Royal Draft Equalizer is made with either 4-inch or 5-inch galvanized pipe.

Price, 90c; postpaid, \$1.00.



POULTRY AND PIGEON FEEDERS AND FOUNTAINS

Royal Thermic Fountains

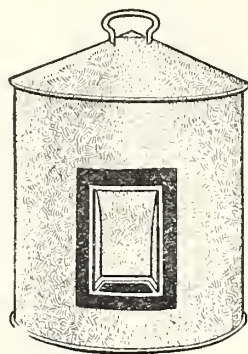
Keeps water warm in winter. Keeps water cool in summer.

The fountain that has won the highest favor among the leading poultry men everywhere. It is indispensable on the poultry farm. Constructed similar to a fireless cooker. Has double walls packed with insulating materials to keep the water warm in winter and cool in summer. Wide inserted drinking pocket makes this fountain absolutely sanitary. Made of the finest materials and best workmanship throughout.

For cold weather fill with warm water in the morning.

This fountain will keep the water in good drinkable condition through the day. Made in three sizes.

2 gal. size \$2.50 each, postpaid \$2.75.
3 gal. size \$3.00 each, postpaid \$3.30.
5 gal. size \$3.50 each, postpaid \$3.85.



Royal Fountains

Made from heavy galvanized iron, of large capacity for grown fowls or chicks. Permits the fowls to drink all around fountain.

No. 403—3 gal. size.
Price \$1.50, postpaid \$1.65.
No. 405—5 gal. size.
Price \$2.25, postpaid \$2.45.
No. 408—8 gal. size.
Price \$3.00, postpaid \$3.25.

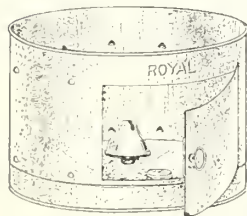


Royal Fountain Heaters

Made from extra heavy galvanized iron with oil fount built-in. Furnished with "no-chimney" burner which insures perfect combustion. Burns for a number of days with one filling of oil. Can be used with all Royal Fountains up to eight gallon size.

No.	Diameter.	Weight.	Price.	Postpaid.
211	11 in.	6 lbs.	\$1.30	\$1.42
214	14 in.	8 lbs.	1.50	1.64

No. 211—Heater & 3 gal. fount with stand complete \$5.00 postpaid
No. 214—Heater & 5 gal. fount with stand complete \$6.00 postpaid
A Convenient Outfit in 3 Units.



Leader Fountain

A new Sanitary Fountain, easy to keep clean. A saving of from 30 to 40 per cent over any fountain of its size.

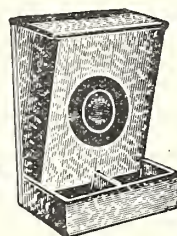
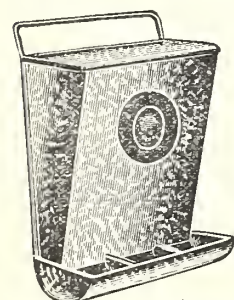
Price, 1½ gal. size, 85c each; postpaid, 95c.

The 3 gal. size has two drinking spaces, making it very convenient for large pens. These founts hang on the wall with two nails.

Price, 3 gal. size \$1.50 each; postpaid, \$1.60.

Grit and Shell Boxes

There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes. Can also be used as feed hoppers for little chicks. Made of heavy galvanized iron in three sizes. The No. 45 for baby chicks has a square bottom; the other sizes have round bottoms.



No.	No. of Compartments.	Weight.	Price.	Postpaid.
45	2	1 lb.	40c	47c
9	3	3 lbs.	85c	94c

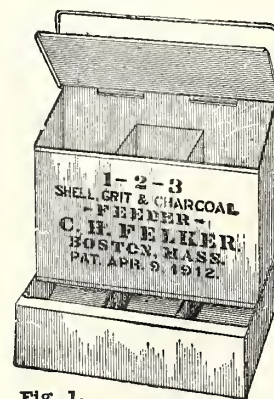


Fig. 1.

FELKER'S "1-2-3" GRIT AND SHELL FEEDER—Fig. 1

For dry mash, scraps, shells, grit, charcoal or any poultry feed. When used for one kind of feed only, take out separator in one end; three kinds, say scraps, shell and grit, put separator in middle, and you have three separate feeders. Price, \$1.35; postpaid, \$1.45; small size, 75c; postpaid, 85c.



Fig. 3.

Earthenware Poultry Fountains

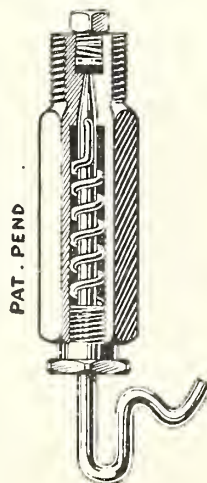
Black Glazed.



The poultry fountains supply a constant flow of pure water. Made in 2 pieces, can be easily kept clean and sanitary. The slot also permits the use of thick milk or other heavy liquids. In following sizes: 2 qt. size 50c; 4 qt. size 60c. Not Mailable.

The New Dry-Not Valve

Will save time and labor, keeps (two quarts to two gallon) water troughs full in brooder house, laying house or range whether connected to barrel, gravity, or pressure system. No chatter or pressure noises. Quickly shut off for cleaning troughs, etc. Made of brass, frost-proof, dependable. Fully guaranteed. \$1.25 postpaid.



PAT. PEND

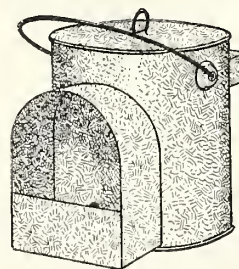


Fig. 4.

ROYAL TWO-PIECE CLEAN-OUT WALL FOUNTAIN—A big improvement over the old style Wall Fountain. Made in two pieces. Easy to clean, dead air space between cover and reservoir keeps water cool in summer.

Price, 4-qt. size, \$1.15, postpaid \$1.25; 8-qt. size, \$1.40, postpaid \$1.50. Fig. 4.

"PEERLESS" DRINKING FOUNTAIN keeps the water clean and pure. 5 qts. 90c, postpaid \$1.00; 10 qts. \$1.50, postpaid \$1.60. Fig. 3.

Feed Cups for Exhibition and Training Cages—Fig. 5. Large size, No. 1, 20c each; \$1.75 doz.; small size, No. 0, 15c each; \$1.50 dozen, postpaid.



Fig. 5

Pigeon Nests



Clay Pigeon Nest—Price, 25c each; \$2.50 per doz. Express only.

Thermometers, Instruments, and Appliances

Incubator and Brooder Repairs

We carry a full line of Buckeye Incubator and Brooder Repairs. See page 75.

Incubator Wicks—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

Brooder Wicks—No. 20, 40c; No. 30, 60c. Postpaid.

Putnam Stove Wicks—2 for 5c. Holder and Wick, 10c. Postpaid.

Putnam Heater Wicks—2 for 5c. Holder and Wick, 10c. Postpaid.

Incubator and Brooder Lamp Burners—For Buckeye, Cyphers and other makes. No. 2 and 3—Large size, \$1.00; Postpaid, \$1.07. No. 1 takes 1-inch wick, has large flame, 75c. Postpaid 82c.

Chimneyless Lamp Burner—Price 75c. Postpaid 82c.

Metal Wafer Thermostat

All brass, fits all makes brooders and incubators.

3-inch	40c
4-inch	60c
5-inch	80c

Via parcel post, 5c extra.



M.S. Brooder Thermometer

White enamel background, black figures and graduations, red liquid and magnifying lens, make this thermometer easy to read. Scale ranges from 120 degrees to zero with this instrument observations can be taken at a glance.

Price 75c, postpaid.

Thermometers

Buckeye Incubator Thermometer, \$1.00.

Buckeye Brooder Thermometer, \$1.25.

Buckeye Electric Brooder Thermometer, \$1.25.

For postage add 5c.

"Tycos" Incubator Thermometer — Many poultry raisers prefer the standing type of Incubator Thermometer. No. 5776 is made with metal legs, which fold under and may be adjusted to almost any desired position. Sets in among the eggs on the tray of the incubator. Made in mercury tubes only. Price, 75c each; postpaid, 80c.

Tycos Certified Thermometer No. 5783—Price, \$1.00 postpaid \$1.05.

"Tycos" Brooder Thermometer, No. 5792 — Mounted. Price, 60c; 65c postpaid.

"Tycos" Incubator Hygrometer, No. 5796 — Price, \$1.50; postpaid, \$1.55. Extra wicks 10c each, postpaid.



Thermometer No. 5776.



Philadelphia Caponizing Set—In plain box, \$3.00; in velvet-lined box, price \$3.50, postpaid.

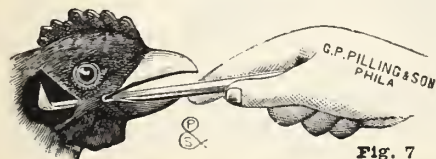


Fig. 7

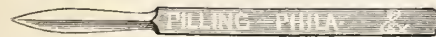


Fig. 6



Fig. 3.

Lansdowne No. 1 Caponizing Set, \$5.00, postpaid.

Cornell Caponizing Set, \$6.00, postpaid.

ANGULAR KILLING KNIVES — Fig. 7. Price, 50c postpaid.

FRENCH POULTRY KILLING KNIFE—Fig. 6. Price 50c postpaid.

GAPE WORM EXTRACTOR — Price, 25c, postpaid. Fig. 3.

Acme Egg Grading Scale

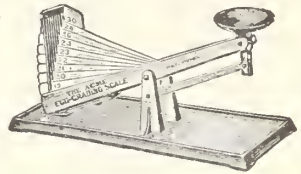
Is used by 50 State institutions and has been officially adopted as the standard scale in many sections of the United States and Canada.

Will grade all eggs ranging from 16 oz. to 32 oz. per dozen.

The Acme Scale is made entirely of aluminum which makes it rust-proof and practically indestructible. Works automatically. Easily read. Indicates grade instantly.

Price, \$2.75 each; Postpaid, \$2.85.

COMMERCIAL EGG CRATE FILLERS—Will fit any standard shipping case. 12 sets to case. \$3.25, postpaid \$3.75; 35c doz., postpaid 45c.



Breeders' Magic Egg Tester

Is now universally used by poultrymen everywhere to select the strongest eggs for hatching BEFORE incubation. Requires no skill nor expense to operate—just a pair of hands and eyes. Tests 400 eggs per hour, and the greatest money saver in the realm of poultry supplies. Fully guaranteed, \$2.00 each.

X-RAY EGG TESTER. Fig. 1. Fits most any lamp or electric bulb. 25c, postpaid 35c.



Fig. 1.



Mehler Scraper

Positively the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways, coming and going.

Made of the very best hard pressed steel. Price \$1.25, Postpaid, \$1.32

CEL-O-GLASS

What Is Cel-O-Glass?

Cel-O-Glass is an unbreakable, highly translucent material made by coating tough wire mesh with a transparent substance that lets through practically as much light as clear glass. Cel-o-Glass is very light in weight, absolutely weather-proof and extremely easy and economical to use. It is flexible, comes in rolls and can be used almost any place where fragile glass is required.

Brings the Ultra-Violet Rays of the Sun Indoors

In addition to its many remarkable advantages, Cel-O-Glass lets through the valuable health-building ultra-violet rays of the sun. Glass keeps these vitalizing rays out!

Protect Chicks & Plants with

CEL-O-GLASS

HOW TO INSTALL CEL-O-GLASS

New window CEL-O-GLASS is tougher. It is the only ultra-violet ray window material on a wire mesh base with published scientific proof that it increases egg production and reduces chick losses. Properly installed, it lasts for 5 years and longer. For longest life install on vertical frames to swing up under the roof or to the side—or install on sliding frames to slide down behind the front just under the window opening.

Cel-O-Glass—The great substitute for glass, much stronger and lighter than glass. Can be used wherever glass is used. 300 square feet to the roll. Cut any size from 1 running foot up. Price, per running foot, 26 in. wide 30c; 28 in. wide 32c; 36 in. wide 41. Postage 10c for one running foot, 1c extra for each additional running foot; 100 ft. rolls, 26 in. \$29.00; 100 ft. rolls, 28 in. \$31.00; 100 ft. rolls, 36 in. \$39.00.

Flex-O-Glass (Glass Cloth)—One square yard, 27c; 10 square yards or more, 25c per square yard. Postpaid.



Oakes Electric Fountain Heater



Keeps drinking water from freezing even in zero weather. Safe and easy to use. No danger of fire or explosion. Cost averages about a cent a day. Used with any type fountain, pan, crock or bucket. Set water vessel on heater and turn on current. That's all there is to it! No adjusting! No regulating! No watching! Pays for itself in winter eggs. Heater is 8 inches in diameter, 1½ inches high and made of heavy galvanized metal. Built for service. Price, \$1.75, postpaid \$1.85.

Oakes 3-Way Electric Fountain Heater

Operates on three temperatures—high, medium and low. \$3.00, postpaid.

Little Putnam Stove for Poultry Fountains and Oat Sprouters

This little device will keep water from freezing in zero weather. It holds 6c worth of oil and burns a month without filling or trimming. Fool proof and fire safe. Used under any can, crock or fountain. Also used to heat a home-made oat sprouter. Plans for making sprouter packed with every stove.



Postpaid
\$2.00

Burns a Month Without Attention

Leg Bands for Poultry and Pigeons

TABLE: No. 2, Leghorn; No. 3, American; No. 4, Asiatic; No. 5, Turkey Size. ALL POSTPAID.

SPIRALET LEG BANDS are made of celluloid in different colors: black, white, light blue, dark blue, red, green, yellow. Prices: Three Poultry Sizes (state breed and sex): 12, 15c; 50, 40c; 100, 75c; 1,000, \$6.50. Pigeon and Day Old Chick Size: 12, 10c; 25, 20c; 50, 35c; 100, 50c.

"SMITH SEALED" BANDS—If you want the best be sure you get "Smith Sealed" stock numbered bands. Every band is numbered different. Sizes as per Table above. Prices: Dozen, 35c; 25, 60c; 50, \$1.00; 100, \$1.75; 250, \$4.00; 500, \$7.75; 1,000, \$15.00.

SEALERS FOR SEALING S. S. BANDS—Plain, \$1.05; lettered jaw, \$1.15.

"DOUBLE-CLINCH" LEG BANDS—Made in sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices, dozen, 20c; 25, 30c; 50, 40c; 100, 75c; 250, \$1.75; 1,000, \$6.50.



Double Clinch

National Wing Bands

NEW STYLE

The best clinch or seal wing band manufactured. Price, 15c per doz.; 25c for 25; 35c for 50c; 60c per 100.



Fig. 2

ECONOMY DOUBLE NUMBER COLORED PIGEON BANDS—Fig. 7. For marking nest pairs. This band is the most visible, numbered on both sides, in 12 colors, black numbers on white field. Prices: 6 pairs, 25c; 12 pairs, 40c; 25 pairs, 75c; 50 pairs, \$1.35. Fig. 7.



Fig. 7

M.-S. Ribbon Band

This is an exceptional band; in fact the best celluloid band ever produced. It has a good large number that is indestructible so far as wear is concerned. The best band ever made for use in trapnesting. Made in six sizes, nine colors.



Per 100, postpaid
No. 1—Chick size, Day Old.....\$1.25
No. 2—Chick size, Two weeks old, or for pigeons 1.25
No. 3—Mediterranean Breeds 1.50
No. 4—American Breeds..... 1.60
No. 5—Asiatic Breeds 1.75
No. 6—Turkeys and Geese 2.75
In small lots, all sizes, 25c per dozen but No. 6, 35c per dozen.

Anti-Setting Device

STOPS THE HEN SETTING

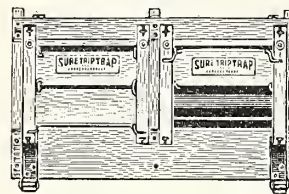
Breaks 'Em Up in 24 Hours (Patent Applied For)

Does not in any way injure the fowl. Requires five seconds to apply. Wrap around the leg joint blank sides front and back; allow the hen to feed and run with the flock 24 hours, then remove. Price, 15c each; \$1.50 dozen, postpaid.



Sure Trip Trap Nest Front

Simple mechanical device, ingeniously designed which accurately traps. Easily attached to an orange box or any home made nest. Very inexpensive. 35c each, postpaid 42c; 3 for \$1.00 postpaid; 100 for \$25 f. o. b. Baltimore, Md.



SANITARY NESTS. All steel. Four section \$4.00; eight section \$7.50.

Oakes Trap Nest Fronts

(Patent Applied for)

You can use this front to make a trap nest out of any ordinary orange box, small dry-goods box, etc. Entirely practical but inexpensive. Opening 9 x 10½ inches. Price, each 25c, postpaid 35c.

Nest Eggs & Wire Nests

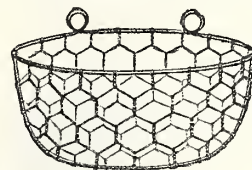
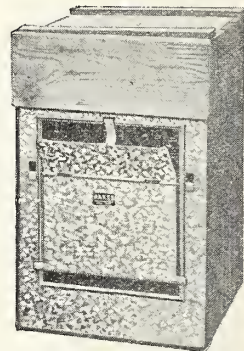
These nests are strongly made from coppered wire, reinforced with coppered steel ribs, and will last for years. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean, and are far superior to

wooden boxes. Price, each, 25c; \$2.50 per dozen. Parcel Post wt. 1 lb. each.

Opal Nest Egg—Prices: 5c each, 40c dozen. Postpaid 50c.

M.-S. Lime Nest Egg—Will last indefinitely; looks most natural. 5c each; 50c dozen, postpaid.

Chatfield's Naphthalene Nest Eggs—Keeps vermin away, disinfects nest. 5c each, 50c doz., postpaid.



Water Glass

Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 to 60 dozen. Price, 1 quart, 35c; 1 gallon, \$1.00. Liquid not mailable.

Fleming Egg Keep

Over 100,000 poultry raisers have used Fleming Egg Keep successfully—to keep fresh eggs fresh, without refrigeration.

Those in charge of the poultry husbandry departments of many of America's leading agricultural colleges have tested, approved and recommend Fleming Egg Keep.

Simply put treated eggs away in open containers—one 2-ounce can treats 75 to 100 dozen eggs.

Price—2-oz. can, \$1.00; 4-oz. can, \$1.50 postpaid.



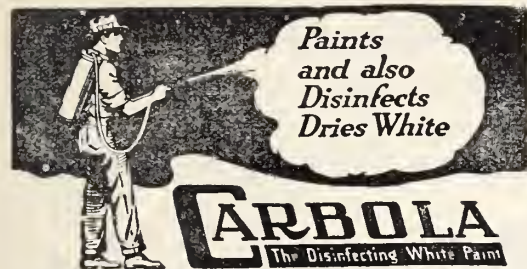
Disinfectant, Deodorant, Sterilizer

FOR DISINFECTING and DEODORIZING
Farm Buildings, The Home, etc.

Prices: 4 oz. 30c; 10 oz. 50c; 1 qt. 90c; 1 gal. \$2.00; 5 gal. \$8.50. Not Mailable.

Pratt's S/H

A highly concentrated sodium hypochlorite solution. Ten times stronger than carbolic acid. Sterilizer, Deodorant, Disinfectant and Antiseptic. Prices: 10 ozs. 50c; 1 qt. \$1.00; 1 gal. \$2.50. Not mailable.



THE POWDER OF MANY USES

CARBOLA is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. **One pound covers 100 sq. ft.**



IN THE CHICKEN HOUSE

To paint and disinfect side walls, ceilings, roosts and brooders. Helps keep the birds free from lice and mites and the buildings clean, light and sanitary. Sprinkle it in the nests and rub it into the birds. The dry powder is an excellent louse powder.

IN THE BARN

To paint and disinfect side walls, ceilings, stalls, etc., as an aid to cleanliness and prevention of tuberculosis, foot and mouth disease, and other contagious diseases. Spread the dry powder on floor where the cow stands. Use it as a louse powder. Wash hands with powder before milking.



IN THE HOUSE

Carbola applied to walls and ceilings of cellars will kill bad odors, mustiness, prevent cobwebs, disease germs, drive out spiders, ants and other insects. Use the dry powder as cleanser for pots, pans, cutlery and for removing stains from woodwork. Especially recommended in bathroom for cleaning bathtubs, wash basins, tile and for disinfecting the bowl.



Dust Carbola on rose bushes, peas, cabbage, tomato plants, etc., to help get rid of insects and worms. Spray it on trees and tree trunks.

It increases light, sanitation and general appearance in factory buildings. It makes cleaner warehouses. An excellent and economical interior finish for garages.

Prices: 5 lbs. 75c, makes 2½ gals. postpaid 87c; 10 lbs. \$1.25, postpaid \$1.42; 50 lbs. \$5.00, postpaid \$5.60.

Cyanogas

Calcium Cyanide (Crude)—A-DUST

Kills rats, mice, moles, pocket gophers, ground squirrels, woodchucks, ants, fleas, bees, roaches and moths.

Directions: For Rats and Mice—Pump dust in open rat hole with Cyanogas duster. Plug all holes from which dust is seen to emerge. Continue pumping until reasonably sure that the dust has permeated the rat warrens. Remove duster nozzle and block hole. Treat next open hole in same manner. Continue until all holes have been plugged. **Price**—½ lb. 45c; 1 lb. 75c; 5 lbs. \$3.00. Not mailable.

Carbolineum

A wood preservative, prevents rot and decay of woodwork above and below ground or water, and where subject to attacks of fungi, white ants and other borers. Also used to destroy chicken ticks and red mites in poultry houses. **Price**—\$1.50 per gallon. Not mailable.



Kill Rats—Without Poison

A New Exterminator that is Absolutely Safe to use Anywhere!

Will not injure human beings, livestock, dogs, cats, poultry, yet is deadly to rats and mice every time.

Poisons are too dangerous

K-R-O does not contain arsenic, phosphorus, barium carbonate or any deadly poison. Made of powdered squill as recommended by the U. S. Dept. of Agriculture in their latest bulletin on "Rat Control."

K-R-O

KILLS-RATS-ONLY

Price: Package sufficient to kill 200 or more rats, 75c postpaid.

Common Sense Exterminator



KILLS RATS

Why feed rats when a 25c can of "Common Sense" will clean them out?

"Common Sense" has been on the market for over a quarter century. It does the work or we would not handle it.

Get a can NOW and if you do not find it entirely satisfactory, we will refund your money.

Price, 25c. Not mailable.

Sanaseed

The Modern Exterminator—
A Seed That Kills Mice



"Sanaseed" is a seed, clean, quick and dependable. It is fed to mice as it comes from the package. No baits, no fuss or muss. Simply sprinkle "Sanaseed" where mice frequent. It

attracts—mice prefer it to food stuffs. They eat it readily and quickly vanish. They seek the outdoors to die.

Price 25c. Fully guaranteed. Not Mailable.



2½ oz. Jar \$1.00.
Postpaid \$1.05
Industrial Can
1000 Grams
\$10.00.

Guaranteed to Kill Rats and Mice

PASTOXINE

The rat exterminator that thousands are using to destroy the most costly pest known.

Two grains will kill a rat in from 2 to 6 hours, and it will go out into the open to die, thus eliminating all unpleasant odors.

PASTOXINE is absolutely harmless to human beings, poultry and domestic animals, and is approved by Boards of Health in leading cities and by the U. S. Dept. of Agriculture as not misbranded.

THE ONE POSITIVE WAY TO KILL RATS — PASTOXINE

On Articles Not
Marked Postpaid
Allow 7c for the
1st lb. and 1c for
every additional lb.

Poultry Foods, Tonics, Disinfectants, Etc.

Prices on All Foods Subject to Change Without Notice

PRICES ON LARGER QUANTITIES ON REQUEST

ALFALFA CLOVER MEAL—Rich in protein and especially desirable for young birds. 5c lb.; 100 lbs. \$3.00.

BARLEY—Principally fed for making feathers and bone. 5c lb.

BEEF SCRAPS—Very rich in protein; 50 to 55 per cent protein, 12 to 15 per cent fat, 1 to 2 per cent fibre. 8c lb.; 10 lbs. 75c; \$5.00 per 100.

BONE FLOUR—Very beneficial as a bone builder. 10c lb.; \$5.00 100 lb.

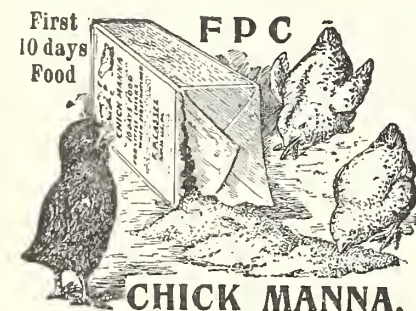
BRAN (Wheat)—For mash, etc. An excellent egg maker and very nutritious. 5c lb.

BUCKWHEAT—Fed very largely as change of diet. 5c lb.

BUTTERMILK SEMI-SOLID—1 gal. can, \$1.00; 5 gal. pail, \$4.25; 140 lb. barrel, these vary in weight, at 3c per lb.

CANADA PEAS—Principally fed to pigeons. 7c lb.

CHARCOAL—Three grades, fine, medium and coarse. Disinfects the bowels and tones up the whole system. 1 lb. 8c; 35c for 5 lb.; 10 lbs. 60c; \$2.00 for 50 lbs.; 100 lbs. \$3.50.



CHICK MANNA — Is a complete food in every respect, requiring nothing more for the first ten days. Price, 1 lb. 15c; 3 lbs. 40c; 5 lbs. 60c; 15 lbs. \$1.65; 100 lbs. \$8.50.

CORN CHOPS—Suitable for either mash or feeding little chicks. 5c lb.

CORN CRACKED — Carefully sifted; fine or coarse. 1 lb. 5c.

CORN WHOLE — 5c lb.

GLUTEN MEAL—For feeding to both poultry and cows. 1 lb. 5c.

GRIT (Cockeysville Egg Shell)—Fine, medium and coarse. 5 lbs. 15c; 25 lbs. 50c; 50 lbs. 75c; \$1.25 per 100 lbs.

GRIT (Red Cross Health)—For pigeons. 5 lbs. 20c; 10 lbs. 35c; 25 lbs. 65c; 50 lbs. \$1.25; 100 lbs. \$2.25.

HEMP SEED—Fed largely to pigeons, also to poultry during winter months. 8c lb.

KAFFIR CORN—Makes a fine food for pigeons, also used for poultry. 5c lb.

LINSEED MEAL—For feeding with the regular ration during the moulting period. 5c lb.

MIDDINGS—An excellent change in combination of a mash. 5c lb.

MILLET (for feeding)—Highly nutritious and used extensively for pigeons and young chickens. 5c lb.

OATS—Splendid for sprouting. 5c lb.; Rolled Oats, 6c per lb.

OAT MEAL (Pin Head)—An excellent food for young chicks after they are a few days old. 6c lb.

OATS HULLED—A splendid food for young chicks. 6c lb.

OATS GROUND—This makes an excellent dry feed when combined with other similar ration. 5c lb.

OYSTER SHELLS—Fine and coarse. 5 lbs. 15c; 50c for 25 lbs.; 50 lbs. 75c; \$1.25 per 100 lbs.

PIGEON FOOD (PRATTS)—Containing the best of grain. No corn. 6c lb.; 100 lbs. \$4.50.

SUNFLOWER SEED—For poultry, parrots, etc., 10c lb.; 10 lbs. 80c.

TOBACCO STEMS—1 lb. 5c; 50 lbs. \$1.75; 100 lbs. \$3.00.

POUL TOBACCO (Tobacco Powder and Tonic)—For the elimination of large and small round worms in poultry and as a tonic. Use 2 lbs. to 100 lbs. of mash. 1 lb. 10c, postpaid 18c; 10 lbs. 75c, postpaid 92c; 50 lbs. \$3.00, postpaid \$3.57; 100 lbs. \$5.00 f.o.b. Baltimore, Md.

PRATT'S S/H—Chemically, it is a highly concentrated sodium-hypochlorite solution. Ten times stronger than carbolic acid, it exterminates bacteria swiftly and surely through oxidation rather than by poisoning.

For prices, see page 80.

Bird and Fish Foods, Catnip Mouse



Canary Seed 15c	Thistle 45c
Bird Rape 15c	Sunflower 10c
Millet 05c	Hemp Seed 08c
Poppy or Maw 30c	Mixed Bird Seed 15c

Special price on all the above in quantities.
Flax Seed 25c
Cuttle Fish Bone—Price, 5c each; 50c lb. postpaid.

"Gloria" Song-Restorer Food—This is scientifically proportioned and has been fed with great success. Price, 1 lb. 25c; Postpaid, 32c.

For-get-me-not, Wild Bird, Seed Mixture—Feed the little songster in the winter time. 15c lb., postpaid 22c; 10 lbs. \$1.00, postpaid \$1.17.

Bird Sand for Canaries and other birds. Very necessary. What we offer is sifted and free from all dust. Carton, 15c per lb. Postpaid 25c.

Spratt's Fish Food—15c, postpaid 20c.
Catnip Mouse—Make kitty happy. 10c, postpaid.

Burnetts Lightning Bird Regulator—25c, postpaid 32c.

Burnetts Unexcelled Bird Food—25c, postpaid 32c.
Burnetts Nestling Food—20c, postpaid 25c.
Burnetts Bird Nesting—10c, postpaid 15c.
Burnetts Bird Nests—10c postpaid.

SPRATT'S BIRD FOODS

Cage Birds Want Spratt's
"Sing-Song"

An Appetizing Food and Pick-Me-Up for
All Songsters

Price, 15c, postpaid 20c.

Spratt's Cod Liver Oil Cage
Bird and Nestling Food

For feeding young birds and old birds in the moulting season. A tonic and flesh and bone maker. Unequaled as an aid to feather growth. In 4 oz. package. Price, 15c, postpaid 20c.



Spratt's Moulting Food

It is not only a valuable tonic mixture but a flesh and bone-making food, keeping birds in good health during the moulting period. As a feather producer, it is unrivaled. In 9 oz. package. Price, 25c, postpaid 32c.

Spratt's Egg, Fruit and Seed Canary Mixture



Totally unlike any other mixture prepared for regular canary-feeding, Spratt's Egg, Fruit and Canary Seed Mixture offers the bird a delightful and wholesome change.

The quality of the European Canary Seed, sweet summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect. Its regular use (alternated occasionally with Spratt's Cod Liver Oil Cage Bird Food) must result in improved beauty, health and song. Price, 25c, postpaid 30c.

Spratt's Red Mite Traps

Spratt's Red Mite Traps for all cage birds will last a lifetime. They are easily installed, effective and an absolute necessity.

Birds are happy when they are free from mites. Bird lice exist in practically every cage. They suck the life-blood and weaken cage birds, thereby preventing them from singing, from hatching and from laying. Simply remove other perches at night to enable the bird to roost on the mite trap perch. Mites crawl along the grooves of the stick into the mite trap and become entangled in the cotton which must be removed from the tin drum and burnt two or three times a week. By constantly replacing with fresh cotton, you will have a happy, healthy bird. Price 25c postpaid.



Walko Remedies

WALKO WHITE DIARRHEA, ROUP AND CHOLERA TABLETS—Price 50c and \$1.00 pkg., both postpaid.

WALKO EGG MAKER (Tonix)—Price, 50c and \$1.00; postpaid, 60c and \$1.15, respectively.

WALKO SPECIAL LICE POWDERS—Price, 50c, postpaid.

LEE'S LICE KILLER—Liquid—Qt. 60c; 2 qts. 90c; 1 gal. \$1.50 Not mailable.

LEE'S GERMO-ZONE—The best tonic for poultry of all kinds. Cures rouse, cholera, and other poultry diseases. 4 oz. bottle, 40c. 12 oz. bottle...\$.75 32 oz. bottle... 1.50 1 gallon..... 4.50 Not Mailable.

LEE'S VAPO SPRAY—Very beneficial for spraying around the roosting quarters at night in cases of Roup, Canker, Bronchitis and Pneumonia. 1 qt. 75c; ½ gal. \$1.25; 1 gal. \$2.00. Not mailable.

LEE'S FLU KOFF EMULSION—For Roup, Colds, Bronchitis and Pneumonia. Price \$1.00. Not mailable.

LEE'S "GIZZARD WORM CAPSULE"—Expels worms without sickening the chicken or retarding egg production. 50 Capsules \$1.00, postpaid; 100 Capsules, \$1.75, postpaid.

F. & E. CHICK PICK—See page 76.

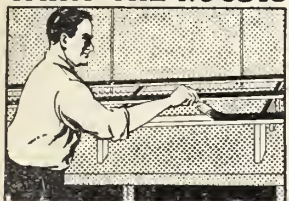
DR. HESS POULTRY PANAMIN—3 lbs. 50c, postpaid 60c; 7 lbs. \$1.00, postpaid \$1.14; 15 lbs. \$2.00, postpaid \$2.22; 25 lbs. \$3.00, postpaid \$3.32.

SULPHUR CANDLES for fumigating sick rooms, poultry houses, etc. 15c each, postpaid 22c; 2 for 25c, postpaid 33c; \$1.25 per dozen, postpaid \$1.38.

Russel's Wormer

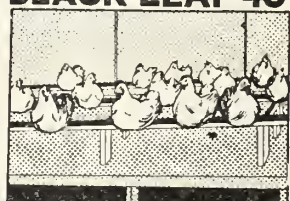
FOR EXPELLING WORMS IN CHICKENS AND TURKEYS
This preparation is in powder form and is excellent for flock treatment. 65c, postpaid 70c.

"PAINT THE ROOSTS"



WITH "BLACK LEAF 40"

"BLACK LEAF 40"



WORKS WHILE THEY ROOST

To the Poultry Industry we take pleasure in announcing a new method of controlling poultry lice with "Black Leaf 40," discovered by Mr. William R. Stewart, a poultryman of Arcadia, Calif. This discovery of a new use for this "Old Reliable" and time-proven product will be of inestimable value to poultrymen everywhere. 1-oz. bottle, 35c; 5 ozs. \$1.00; 1-lb. size, \$2.25; 2-lb. tin, \$3.35; 5 lbs. \$6.25; 10-lb. tin \$10.75. Not mailable. One-half pound size treats 90 to 120 running feet of roost. Other sizes in proportion.

O K Poultry Litter

THE LEADING POULTRY LITTER

O K Poultry Litter is used by most professional poultrymen because it has the reputation for being the best.

It is absolutely sanitary. It is decidedly economical, and makes the cleaning of poultry houses a matter of little worry because they need not be cleaned more than once a season.

Also many other advantages. Let us tell you about them.

Bale of 19-20 bushels, \$3.00; peck 25c; ½ bus. 50c; 1 bus. 75c.

Larger quantities on quotation.



Dethol

IMPROVED



Destroys all insects. It is stainless; can be sprayed direct on poultry. A thorough disinfectant. ½ pt. 50c; 1 pt. 75c; 1 qt. \$1.25; 1 gal. \$4.00. Combination Sprayer and Pint of Dethol, \$1.00. Being a liquid, it cannot be sent by parcel post; express only.

Spratt's Patent Dog Soap (White) for Fleas,



Is of the greatest value to dog owners, as it is entirely free from poison and at the same time aids in the destruction of lice and fleas. Moreover, it keeps the skin free from Scurf, aids in the prevention of Mange and certain other skin diseases. No other soap should ever be used in preparing dogs for exhibition; it leaves the coat smooth and glossy.

Spratt's Patent Dog Soap contains no Carbolic Acid or Coal Tar but is nicely perfumed and produces a fine lather. Recommended by kennel owners throughout the world. Once tried, always used. Price per cake, 25c, postpaid 30c.

Directions: In using this for the destruction of Lice and Fleas, observe: Use only enough water with the soap to make a good lather, sufficient to saturate the coat and skin, and when it has remained in a minute or so, rinse out.

Spratt's Dog Medicines

Price Includes Postage, Except Where Noted

Spratt's Sulfur Tablets—For heated blood, etc.....	\$.60
Spratt's Nerve Sedative Tablets—For Cholera, St. Vitus' Dance, etc. ....	.60
Spratt's Alternative Tablets—For obstinate cases of Mange and Eczema .....	.60
Spratt's Cough Tablets—Generally effect a quick cure.....	.60
Spratt's Constipation Tablets—A gentle and effective laxative .....	.60
Spratt's Astringent Tablets—To relieve Diarrhoea, which usually follows change of food, etc., etc.....	.60
Spratt's Special Tablets—Used in the treatment of distemper	1.00
Spratt's Ear Canker Ointment—For both internal and external forms of this disease.....	.75
Spratt's Medicine—For certain forms of mange and eczema.	.60
Spratt's Flea Powder—Aids in removing certain parasites from dogs, cats and other animals. Per tin.....	.30
Spratt's Purgative Tablets—Perfectly safe and effective....	.60
Spratt's Tonic and Condition Tablets—To build up after sickness and to put in bench show form, etc.....	.60
Spratt's Capsules—For ascarids and large round worms....	.60
Spratt's Capsules for Puppies—For ascarids and large round worms. May be given with perfect safety to puppies from 6 weeks old to 6 months.....	.60
Spratt's Tonic and Condition Tablets for Toy Dogs and Puppies .....	.60
Spratt's Special Tablets for Toy Dogs and Puppies.....	1.00

Sergeant's Dog Remedies

Diuretic Pills—Price, \$1.20. Postpaid.	
Mange Medicine—Price, 65c; 75c. Postpaid.	
Condition Pills—Price, 60c. Postpaid.	
Sure Shot Capsules—Price, 60c. Postpaid.	
Sure Shot Liquid—Price, 60c. 70c Postpaid.	
Arsenic and Iron Pills—Price, 60c. Postpaid.	
Dog Rub (a Liniment)—Price 60c; 70c Postpaid.	
Canker Wash—Price, 60c; 70c postpaid.	
Cough Medicine—Price, 60c; 70c Postpaid.	
Well Mouth (Sore Mouth and Black Tongue)—Price 60c; 70c postpaid.	
Eye Wash—Price, 60c; 70c Postpaid.	
Tape Worm Medicine—Price, 60c. Postpaid.	
Rheumatism Pills—For muscular soreness. Price 60c. Postpaid.	
Constipation Capsules—Price, 60c. Postpaid.	
Skip-Flea Soap—Price, 25c. Postpaid.	
Carbolic-Tar Soap—Price, 25c. Postpaid.	

Glover's Dog Medicines

A REMEDY FOR EVERY DISEASE

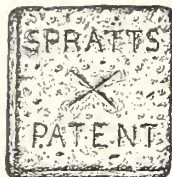
DOG BOOKS ON REQUEST

Your Choice of GLOVER'S, SPRATT'S, or SERGEANT'S
DOG FOODS—See page 84.

SPRATT'S PATENT, Ltd. Dog Foods



They Fight For Spratt's



Spratt's Meat Fibrine Dog Cakes

A Staple Food For All Breeds

For sixty years the standard dog food, used by the leading breeders and fed at the principal dog shows throughout the world. The best results are obtained by giving the biscuits dry, not soaked, thereby compelling the dog to gnaw the food and thus producing a copious flow of saliva which materially aids digestion. Price, 1 lb. 15c; 5 lbs. 65c; 10 lbs. \$1.25; 25 lbs. \$3.25; 100 lbs. \$11.50. Postage extra.

Spratt's Ovals

The Pocket Dog Biscuit

A small Meat-Fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog. 1 lb. 15c; 5 lbs. 70c; 10 lbs. \$1.35; 25 lbs. \$3.25; 100 lbs. \$12.00. Postage extra.



Chappel Bros. DOG and CAT FOODS

KEN-L-RATION

Is composed of clean wholesome meat, the best grade of cereals and Norwegian Cod Liver Oil in exactly the right proportions to make a perfect balanced ration. 1-lb. can 15c; postpaid 23c. 2 lbs. 25c; postpaid 34c. Case of 48 cans, \$5.75; postpaid, \$6.31.

KIT-E-RATION

The ingredients in this cat food contain properties so very essential for the growth and development of the cat or kitten. 1-lb. can 15c, postpaid 23c; per case (48 cans) \$6.00, postpaid \$6.56.

MARO-MEAT—A Concentrated Meat Product

This is a basic meat food and must be fed with other material. For this purpose we recommend Boiled Rice, Rolled Oats, Barley, or other cereals may be used. Cooked vegetables are good, or dry bread. A 2½-lb. can supplemented with water and roughage as indicated above, will make from 8 to 10 pounds of appetizing, nourishing food for kennel use. This food fills a real need to large users.

Prices—1 lb. 15c, postpaid 23c; 2½ lbs. 40c, postpaid 50c; case of 48 pound cans, \$6.00, postpaid \$6.56; eighteen 2½-lb. cans, \$5.50, postpaid \$6.06.

KEN-L-BISKIT—The Golden Cakes of Energy

Ken-L-Biskits—small, square biscuits—can be fed to dogs of all kinds and all ages. Ken-L-Biskits, like Ken-L-Ration, contain all the nutritive elements so vital to growth, strength and ability to resist disease. Good for puppies. Good for grown dogs. Good for old dogs. Price—1 lb. 15c, postpaid 22c; 2 lbs. 25c, postpaid 33c; 5 lbs. 60c, postpaid 70c; 10 lbs. \$1.15, postpaid \$1.31; 25 lbs. \$2.50, postpaid \$2.81; 50 lbs. \$4.75, postpaid \$5.21; 100 lbs. \$9.25, not postpaid.

KIB-L-BISKIT—The Golden Flakes of Energy

This is Ken-L-Biskit ground, of great convenience, may be fed as desired. Dry or moist.

Prices—1 lb. 15c, postpaid 22c; 2 lbs. 25c, postpaid 33c; 5 lbs. 60c, postpaid 71c; 10 lbs. \$1.15, postpaid \$1.31; 25 lbs. \$2.50, postpaid \$2.81; 50 lbs. \$4.75, postpaid \$5.21; 100 lbs. \$9.25 f.o.b. Baltimore, Md.

KEN-L-MEAL

Same as above except that Ken-L-Meal does not contain egg yolk, contains large percentage of fresh lean raw meat and is a splendid food for economical feeders. Prices—1 lb. 15c, postpaid 22c; 2 lbs. 25c, postpaid 34c; 5 lbs. 60c, postpaid 70c; 25 lbs. \$2.25, postpaid \$2.56; 50 lbs. \$4.25, postpaid \$4.81; 100 lbs. \$8.25 f.o.b. Baltimore, Md.

Spratt's All Terrier Meal

For Very Active Dogs

A highly nutritious, tissue building, muscle forming, bone making and conditioning food. Prices—1 lb. 15c; 5 lbs. 60c; 10 lbs. \$1.15; 25 lbs. \$2.75; 100 lbs. \$10.00. Postage extra.

PEERLESS DOG FOOD

A Food for Dogs and Puppies

The best dog food on the market in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this highly nutritious food. Price of Food—1 lb. 10c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$6.00. Price subject to change. Postage extra.

Sergeant's Kibbled Dog Food

Due to the numerous and persistent demands upon us from dog owners for a high class, palatable dog biscuit, we are now prepared to offer Sergeant's Dog Food in cracker form.

Sergeant's Dog Food is the result of long study and experience in feeding. It carries all the best food essentials, and is a quick, easy way to feed. We guarantee its high food value, as it contains clean, freshly cooked beef, and whole wheat flour, together with other ingredients. A properly balanced ration is proven by feeding this food to your dog. It shows in his improved health and vigor. A very nutritious food for dogs or puppies.

Prices—1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.15; 25 lbs. \$2.75; 100 lbs. \$10.00. Postage extra.

D & G Dog Foods

A HIGHLY CONCENTRATED FOOD

Equal to Twice Its Weight in Meat

They contain whole wheat flour, clean cooked beef, milk, malt, soda and other foods, mixed to give the proper amount of protein, carbohydrates, vitamins, minerals, etc., for a dog's good health. They are carefully prepared in a clean, modern bakery. Three sizes—Dog Cakes, Kibbled and Puppy Meal.

Price—1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.10; 25 lbs. \$2.50; 100 lbs. \$9.00. Postage extra.

Pure Cedar Bedding

FOR USE WITH DOGS, POULTRY AND PETS

A Preventive of Disease and Vermin

NO FLEAS, NO VERMIN, NO DISEASE where Cedar Bedding is used.

ENDORSED BY DOG HOSPITALS and large kennels of the country and by many Poultry Fanciers.

PRICES OF CEDAR BEDDING

100 lb. bales.	Freight or express.....	\$7.50	F. O. B. Balto., Md.
50 lb. bales.	Freight or express.....	4.00	F. O. B. Balto., Md.
25 lb. bales.	Freight or express.....	2.25	F. O. B. Balto., Md.
10 lb. bales.	(Can be mailed).....	1.25	Postpaid \$1.41
1 lb. bales.	(Can be mailed).....	.30	Postpaid .37

Dog Feeding Dish

A substantial feeding dish, which will not tip over, and provides a clean, practical method of feeding.

Diameter 10¼ in.
Depth 2 in.

Price—40c each;
postpaid 47c.



We Recommend BURRELL-DUGGER REMEDIES



Every remedy sold under a positive
guarantee of Money Back if Not Satisfied

Now Used and Endorsed by Leading
Poultrymen from Coast to Coast

For Chicken Lice!

U. S. Government recommends new
chemical. Destroys even young
lice as they hatch

Poultry raisers need guess no longer as to the best
method of getting rid of poultry lice. After many tests,
the U. S. Department of Agriculture has found Sodium
Fluoride superior to any other preparation for this pur-
pose. They say it kills both



"I Need T. S. F."

old and young lice, includ-
ing unhatched lice present at the
time of treatment. Talcimized
Sodium Fluoride (called "T.
S. F.") is made especially
for poultry use. It is less
irritating than straight Sodium
Fluoride, penetrates the plumage
more thoroughly, and comes
packed in a moisture-proof,
shaker-top package bearing the
U. S. Government's directions
for using. It is convenient—
never cakes or loses strength—
Full directions are on every
can of T. S. F. for use in the
three ways, either by dip, dust-
ing or pinch methods. Prices—Small size (for 50 chickens),
35c, postpaid 40c. Large size (twice the 35c size), 60c,
postpaid 70c. Special size (5 times 60c size), \$2.50, postpaid.



DON SUNG Chinese for Egg-Laying

Makes Hens Lay in
any Weather

"Hens won't lay in Fall and Winter", used to be accepted as
a fact. But any one who has tried Don Sung knows that hens
will lay right through the zero spells of winter, and all other
cold or wet seasons. Don Sung is not an ordinary stock or
poultry powder. It is a concentrated
medicine—no needless bulk or filler—
ready to add to your mash feed. It has
a direct tonic action on the egg-laying
organs and doesn't force or hurt the hen
in any way. It produces more eggs by
first putting the hen in good health, and
then helping to maintain that health.

COSTS NOTHING TO TRY

Every poultry raiser is invited to try
Don Sung—at our risk. Separate 15 hens
and give them Don Sung for one month.
Then watch results. If Don Sung pays
you, keep on with it. If you don't think
it has paid you, tell us and back comes
your money. No argument to it. Don
Sung is guaranteed—try it, at our risk.

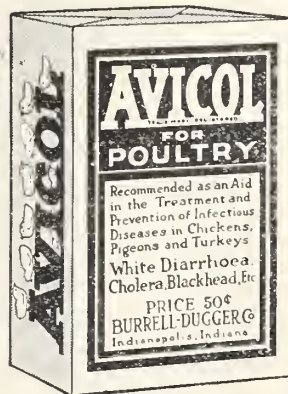


Prices of Don Sung Tablets: Small Size, 50c; Large Size
(3 times the 50c size), \$1; Special Size (6 times the \$1 size),
\$5. We can also supply **POWDERED Don Sung** (for large
flocks) at these prices; 3 lbs. (same quantity as \$5 package
of tablets), \$5; 10 lbs. \$10; 25 lbs. \$20; 50 lbs. \$35; 100
lbs., \$65. All Postpaid.



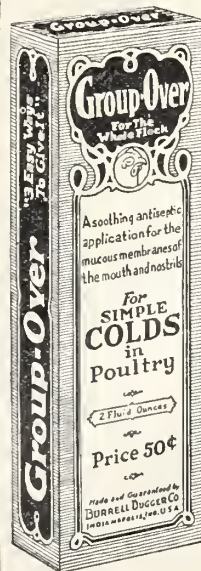
AVICOL For WHITE DIARRHEA in Chicks and Black- Head in Turkeys

Avicol does the work in 48
hours. Almost from the very
moment you drop the first
Avicol tablet in the drinking
water, the sick chicks start to
get well. Usually, in a short
time, the very ones that seemed
too weak and sick to live another
day, are running around as lively
as crickets, full of pep,
hungry, healthy, scratching and pushing for a place at the
feeding trough. After a few days of Avicol treatment, it will
be hard for you to tell just which chicks had been sick and
dying. They will all be so lively and active, the very picture
of health.



Use AVICOL for Prevention and Treatment

Don't sit back and say your loss of baby chicks can't be
stopped. It CAN BE STOPPED—easily, quickly, and at almost
no expense. All you need do is drop an Avicol tablet in the
water occasionally. Avicol is a special bowel antiseptic. It
stops disease and prevents its spread by destroying germ life
and helping the chick withstand infection. Price, 50c. Special
Large Size (almost 3 times 50c size), \$1. All postpaid.



Group-Over

"Formerly called Roup-Over"
"The Over-Night Remedy"
For Colds in Poultry

Use Group-Over at the very first
symptom of Colds in your flock. It
clears the air passages and brings
relief with magic quickness. Easily
used, both for individual treatment
and in the drinking water for flock
prevention. Leading poultry raisers
everywhere now use Group-Over, the
overnight remedy. **It's so easy!**
So sure! There's no other remedy
like Group-Over—nothing "just as
good." Have a bottle ready to use
when you need it. Price, 50c; Large
Size (3 times 50c size), \$1.00. All
postpaid.

SAVED 57 PURE BLOODS FOR HER

"I want to thank you for sending
Group-Over to me a year ago this
winter. If it had not been for your
promptness, I'd have lost about 60
pure bloods with Diphtheritic Roup.
As it was, I lost 3—which were
taken about 10:00 in the morning.
I didn't lose any after the Group-
Over came. Imagine my gratitude
for Group-Over."—Nellie J. McCon-
nell, Devils Lake, Michigan.

Pratts

"QUALITY" POULTRY FEEDS, REGULATORS and REMEDIES

Pratts Buttermilk Baby Chick Food

The original "baby food for baby chicks." It has taken all the guess, worry and loss out of raising baby chicks. Use it the first month to six weeks and watch results. Chicks grow strong, uniform, vigorous and sturdy and are free from leg weakness, "pasting up" and digestive troubles.

Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

Prices—Pkgs. 25c and 50c, postpaid 32c and 60c; 5 lb. bag 40c, postpaid 50c; 10 lb. bag 65c, postpaid 80c; 25 lbs. \$1.50, postpaid \$1.80; 50 lbs. \$2.75, postpaid \$3.30; 100 lbs. \$4.00. Price fluctuates.

Ingredients: Ground hulled oats, dried buttermilk, cooked wheat, sterilized bone-meal, ground whole old yellow corn wheat middlings, epsom salt, millet and rape.



Analysis (Guaranteed)

Protein	16 % minimum	Fibre	5 % maximum
Carbohydrates	69 % minimum	Ash	6.85 %
Fats	3.5 % minimum	Moisture	10 % maximum

In packages and 5, 10, 14, 25, 50 and 100-lb. bags.

After the little fellows are about a month old switch them to

Pratts Buttermilk Growing Mash

DIGESTIBLE — APPETIZING — ECONOMICAL



Buttermilk Growing Mash—Lb. 6c; 100 lbs. \$4.25.

Ingredients — Feeding oatmeal, dried buttermilk, wheat middlings, meat scraps, wheat bran, ground whole old yellow corn, fish meal and sterilized bone meal.

Analysis (Guaranteed)

Protein	17.5 %
Fat	4.5 %
Carbohydrates	58 %
Fibre	7 %

This splendid mash for the growing youngsters supplies an abundance of every element needed for making bone, muscle, feathers and health. Insures vigor and quick, uniform growth. When they are matured give them

AMERICA'S GREATEST "EGG MAKER"

—The one feed above all others that will give you more eggs per pound of feed consumed—which is

Pratts Buttermilk Laying Mash

This remarkable mash is the standard by which others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratts Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

Prices—Lb. 5c; 100 lbs. \$3.75.

Ingredients—Dried buttermilk, ground clipped oats, ground whole old yellow corn, O. P. linseed meal, wheat middlings, alfalfa leaf meal, meat scrap, corn feed meal, wheat bran, fish meal, ½ of 1% salt.

Analysis (Guaranteed)

Proteins	20 % minimum
Fats	4 % minimum
Carbohydrates	55 % minimum
Fibre	9 % maximum

PRICES ON PRATTS GRAIN AND MASH FEEDS SUBJECT TO MARKET CHANGES AND F. O. B. BALTIMORE, MD.



Pratts Scratch Grains

PRATTS CHICK SCRATCH—Lb. 5c; 100 lbs. \$3.75.

PRATTS INTERMEDIATE SCRATCH—Lb. 5c; 100 lbs. \$3.75.

LARGE SIZE SCRATCH FEED—Lb. 4c; 100 lbs. \$3.00.

Prices Subject to Market Fluctuation.

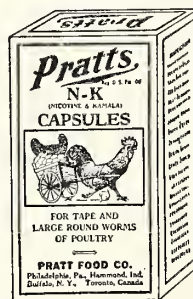
REMEDIES

PRATT'S POULTRY REGULATOR (For Health and Eggs)—Use it the year 'round for breeders, layers and growing stock. Pkgs. 25c and 50c, postpaid 33c and 61c; 12-lb. pkg. \$1.40, postpaid \$1.60; 25-lb. pail \$3.00, postpaid \$3.31; 100-lb. drum, \$10.00. F. O. B. Baltimore, Md.



PRATTS N-K CAPSULES (For Poultry Worms)—Wormy hens can't lay. Pratt's N-K Capsules are quick, sure death for worms. They are recommended by authorities and county agents everywhere.

Prices: Adults—50 capsules, \$1.00; 100 caps. \$1.75; 500 caps. \$7.00; 1000 caps. \$12.00. Chicks—50 capsules, 65c; 100 caps. \$1.00; 500 caps. \$4.50; 1000 caps. \$8.00 postpaid.



PRATTS POULTRY WORM POWDER—A scientific mixture for flock treatment. Safe and effective. Pkg. of 2 lbs. 50c, postpaid 58c; 4½ lbs. \$1.00, postpaid \$1.11.

PRATTS DISINFECTANT—Insures poultry health. It is an economical, powerful, non-poisonous, coal-tar disinfectant. Prices—Qt. 60c; ½ gal. \$1.00; gal. \$1.60. Not available.

PRATTS LICE KILLER

—For use on poultry in dust baths, nests, etc. World's champion killer of life, ticks, and other insect pests. In

sifter cans, 25c and 50c; postpaid, add 5c and 10c.

PRATTS CHICK TABLETS—Use in the drinking water for the first couple of weeks. They will save you many dollars in chicks. Guaranteed. 25c and 50c packages, postpaid.

PRATTS R-P TABLETS. Save your birds from heavy roup loss. Guaranteed to get satisfaction or your money back. 25c and 50c packages, postpaid.



PRATTS SPECIAL COMPOUND—Pkg. 50c, postpaid.

PRATTS GAPE COMPOUND—Pkg. 50c, postpaid.

PRATTS SOREHEAD CHICKEN POX REMEDY—Pkg. 60c, postpaid.

ANIMAL REGULATOR—Made of pure medical roots, herbs, and barks. Carefully blended in the exact proportions necessary to act on the blood and cause perfect digestion. Keeps stock in the pink of condition. Packages 25c, postpaid 32c; 50c, postpaid, 58c.

PRATTS HOG TONIC—Makes healthy hogs. Pkg. 50c, postpaid 58c.

PRATTS S/H—Sodium Hypochlorite. See page 80



What's A Good Laying Mash Worth?

Anyone can make a mash so "cheap" its first cost will cause many poultry raisers to buy it. Don't be misled; do a bit of figuring first. The difference in cost between a "cheap" mash and a good mash such as Pratt's Buttermilk Laying Mash seldom exceeds \$10.00 a ton. With eggs at 50c a dozen, it will take only 240 eggs more per year to pay the difference. As a ton of mash will feed 60 hens for a year, that means but 4 eggs more from each hen, one more egg every three months. Any poultryman knows that a good laying mash will show a far greater increase than four more eggs per year per hen.

The average feed produces eggs at about 20c per dozen. Egg-laying contests and successful poultrymen all over the country tell us their figures show that Pratt's produces eggs at about 9c to 14c per dozen—a clear, extra profit of at least 6c a dozen for Pratt feeders.

With good layers averaging 14 dozen eggs each year and 100 pounds of mash being sufficient to feed 3 hens for that period, the extra profit on the 42 dozen eggs at 6c is \$2.50. Almost unbelievable; but figures don't lie.

Conkeys

The Original Buttermilk Feed

VI-TAL-IZED WITH Y-O

For Baby Chicks, Ducklings, Goslings, Turkeys and Pheasants

Prices on Feeds Subject to Market Fluctuations

THE FIRST CHOICE OF ALL FEEDS—This feed truly "Fills the Bill" because it carries all the body building properties your chicks must have to live, thrive and become vigorous, husky broilers or healthy high-producing birds. The right kind and correct amount of every element needed—proteins, carbohydrates, fats, minerals and vitamins—is in this Starter and all are combined to bring about a rapid growth, strong bone development, and vigorous sturdy chicks—coupled with minimum mortality.

INGREDIENTS—Buttermilk, Corn Meal, Corn Feed Meal, Oatmeal, Wheat Middlings, Raw Bone Meal, Blood Flour, Meat Meal, Crude Milk Albumen, $\frac{1}{2}\%$ Calcium, Salt $\frac{1}{2}\%$, Y-O (Cod Liver Oil, Yeast, Soybean Oil Meal, Wheat Middlings, $\frac{1}{4}\%$ Red Oxide of Iron).

ANALYSIS—Crude protein 15.00%; crude fat 4.00%; crude fibre 5.00%; nitro. free extract 59.00%; carbohydrates 64.00%.

PRICE—5 lbs. 40c, postpaid 51c; 10 lbs. 65c, postpaid 82c; 25 lbs. \$1.50, postpaid \$1.81; 100 lbs. \$4.00. Not postpaid.

Conkeys Gecco Growing Mash With Y-O

If the growing stock at any time lack vitamins A, B and D, the result will be slow-developing, undersized pullets. For this reason we recommend feeding Conkeys Gecco Growing Mash with Y-O. Then their rapid development, their blood-red combs, yellow legs, lustrous plumage and alert bearing will amaze and delight you. You will experience the "big thrill" that always comes when the whole flock of pullets snap into a lay almost simultaneously.

Prices—6c lb.; 100 lbs. \$4.30.

Conkeys Y-O—Cod Liver Oil—and Sunlight

It is now definitely known that the lack of vitamins brings about many ailments in all forms of animal and bird life, especially in the young. They must have these vitamins and since vitamins A and D are found in large quantities in cod liver oil and vitamin B is found to be very strong in yeast, Conkey has taken these two products and, by a secret process, sealed and combined them in such manner that the A and D vitamins of the oil do not lose their potency.

Conkeys Y-O is a chocolate brown powder, which can be easily and readily mixed with any dry mash. It has the savory odor of clean, sweet, freshly-refined cod liver oil and is unusually tasty and palatable to poultry. Hence fowls eat it greedily, as do all birds and animals.

Prices—1 lb. pkg. 50c, postpaid 57c; 2 lb. pkg. 90c, postpaid 98c; 5 lb. pkg. \$1.60, postpaid \$1.71; 25 lb. drum \$6.50, postpaid \$6.81; 50 lb. drum \$11.50, postpaid \$12.06; 100 lb. drum \$19.50, f. o. b. Baltimore, Md.

CONKEYS POULTRY REMEDIES

Known All Over the World—The Poultryman's Standby. Keep a Few Select Remedies Always at Hand Ready for Emergency.

Conkeys Old Reliable Powder

(Formerly Conkeys Roup Remedy)

This famous treatment has been on the market for thirty years, known to poultrymen everywhere as Conkeys Roup Remedy. Many would not try to keep poultry without Conkeys—the Old Reliable. Keep it on hand for use in emergency or put it in drinking fountains on cold rainy days or when there is a sudden change in weather.

Prices—Pkgs. 25c, 50c, \$1; $1\frac{1}{2}$ lb. can, \$2.35, all postpaid; 5 lb. can, \$5.50, postpaid \$5.75.

Conkeys Poultry Pills

(Formerly called Conkeys Roup Pills)

Prices—Pkgs. 25c, 50c, \$1.00 (all postpaid); breeder size (1000 pills), \$2.75, postpaid \$3.00.

Conkeys Balmo

(Formerly called Conkeys Canker Special)

A soothing, cooling application for relieving irritation around swollen eyes and head and in the mouth when treating conditions caused by colds and similar troubles.

Prices—Pkg. 50c, postpaid 55c.

Conkeys Poultry Worm Remedy

(FOR LARGE ROUND WORMS)

Over 90 per cent of market poultry are infested with worms, of which there are many varieties. Worms cause great loss and flocks should be treated regularly. See directions on packages of Conkeys Worm Remedy.

Prices—Pkgs. 25c, 50c, or 30c, 55c, postpaid; breeder size (5 lbs.), \$2.75, postpaid \$2.85.

Conkeys Salvo

(Formerly called Sorehead Remedy)

Good to have on hand for treating sores, cuts and wounds of any description.

Prices—Pkgs. 25c, 50c, or 30c, 55c, postpaid.

Conkeys Diatex

(Formerly called Conkeys White Diarrhea Remedy)

These tablets have been on the market for years as Conkeys White Diarrhea Remedy. Once you have used this old reliable preparation you will never be without it. An astringent tablet for drinking water of poultry and baby chicks. Play safe—keep this remedy in the drinking water of all baby chicks until danger period of the first few weeks is past.

Prices—Pkgs. 25c, 50c, \$1.00, all postpaid; breeder size (950 Tablets), \$3.75, postpaid \$3.85.

Conkeys Nox-I-Cide

(DIP AND DISINFECTANT)

For poultrymen, Nox-I-Cide is indispensable as a red mite destroyer—paint it on the roosts and spray it into cracks. Spray premises daily when disease is present and once a week as a preventative of red mites, ticks, "blue-bugs" and disease epidemics.

Cans—Pt. 50c; qt. 80c; 2 qts. \$1.30; 1 gal. \$2.00. Not mailable.

Conkeys Poultry Tonic

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkeys Poultry Tonic helps birds get more out of their feed. They produce more eggs and better flesh on LESS FEED, by better digestion and assimilation.

Prices—Pkgs. $1\frac{1}{2}$ lbs. 25c; $3\frac{1}{4}$ lbs. 50c; 7 lbs. \$1.00; pails 12 lbs. \$1.60; 25 lbs. \$3.00; bags 50 lbs. \$5.00; 100 lbs. \$9.50. Parcel post, express or freight charges extra.



BARNES EMULSION

Baby Chicks to Matured
Fowls
Easily Fed in Water or Mash
Can be used in any kind
of vessel



**"An Ounce of Prevention
Beats a Pound of Cure"**
Prevents and Controls
Results Permanent

Non-Poisonous, Not an Expellant, Not a Stimulant. Aids Vitality, Nutrition and Digestion, Promotes Rapid Growth.

Take a brood of baby chicks or a pen or flock of young stock or adult birds in which everything else is equal except that one-half of them shall receive Barnes Emulsion in their drinking water and the other half receive NO Emulsion. Then as the days pass by what you see with your own eyes in comparing these two groups for health, vitality, growth and production will convince you without question or doubt as to its effectiveness.

Write for Free Booklet—"Common Sense Vs. Worms."

Barnes Emulsion Prices

1 Quart	\$1.00 postpaid	5-Gallon Keg (Not mailable)	\$12.50
1 Gallon	3.00 postpaid	30-Gallon Barrel (Not mailable)	58.50
	50-Gallon Barrel (Not mailable)		\$92.50

M.-S. WONDER BRED CHICKS

STATE CERTIFIED

100% Live Delivery Guaranteed

Are hatched to live and mature to big fine healthy specimens. We are this season hatching thousands weekly, and are better prepared than ever to fill wants of patrons.

We advise placing orders ahead of time, as the demand for our M.-S. WONDER BRED CHICKS is always great. We will start deliveries the last week in February and continue until the first of June on all popular breeds.

LIST OF M.-S. WONDER BRED CHICKS

Prices for February and March Subject to Change

Without Notice

	Special Prices on 500 and Over Lots.			
	100	50	25	12
White Leghorns	\$12.50	\$3.50	\$3.50	\$2.00
Brown Leghorns	13.00	7.00	3.75	2.00
Puff Leghorns	13.00	7.00	3.75	2.00
Black Minorcas	14.00	7.50	4.00	2.25
Mottled Anconas	14.00	7.50	4.50	2.25
Barred Plymouth Rocks	14.00	7.50	4.50	2.25
Rhode Island Reds	14.00	7.50	4.50	2.25
White Wyandotte	14.00	7.50	4.50	2.25
White Plymouth Rocks	16.00	8.50	4.50	2.50
Buff Plymouth Rocks	16.00	8.50	4.50	2.50
Buff Orpington	16.00	8.50	4.50	2.50

April prices \$1.00 per 100 less than February and March.

May and June prices \$1.00 per 100 less than April.

Small quantities accordingly. **PRICES SUBJECT TO CHANGE.**

MAMMOTH WHITE PEKIN DUCKLINGS IN SEASON—Price, \$25.00 per 100, \$13.00 per 50, \$7.00 for 25, postpaid.



NOTICE!

Due to the close margin on which baby chicks, eggs and all live stock is sold we are obligated to sell this commodity for spot cash only. All orders should be accompanied by cash. One-fourth (25 per cent) of the amount of the order should accompany all orders for baby chicks for future delivery.

We exercise the greatest of care to send out vigorous and healthy chicks, but due to the many causes which hinder the growth and health of chicks, it is impossible for us to guarantee their development.

Before You Receive Your Chicks Check the Equipment

The last item of preparation is the checking of the equipment. We like to brood chicks in lots of 250, so the items below are based accordingly:

FUEL: A good supply of fuel on hand.

ENCLOSURE: Chick wire to enclose chicks around hover for first few days.

LITTER: Granulated Peat Moss—one bale covers 250 sq. ft. one inch deep.

MASH FEEDERS: Three 36-inch mash feeders for chicks up to two weeks old.

WATER OR MILK FOUNTAINS: Three one-gallon fountains.

OTHER HOPPERS: Two grit, oyster shell and charcoal hoppers.

MASH: 300 pounds of "chick starter" mash. Use only best grade of commercial mash. When this mash is gone, change gradually to a growing mash.

SCRATCH: 100 pounds of "chick scratch grain," using only commercial feed. When this is gone, change gradually to intermediate scratch.

GREEN FEED: Be sure to have a supply of green feed. Finely chopped lettuce, swiss chard, kale, cabbage, clover, sprouts from oats, alfalfa, lettuce—all are good.

At the first hint of trouble get in touch with our Poultry Department—This service is free.



Rev. F. Page Roberts.



Francis Scott Key.



K. A. Viktoria.



Etoile de Hollande.



Souv. de Claudius Pernet.



Red Radiance.



Mme. Butterfly.

PLANT A ROSE GARDEN (Cultural Directions Furnished.)

M.-S. Monthly Blooming Roses

All Roses offered on this page are growing in 6 inch pots.

Price \$1.00 each - \$9.00 for 10

We make city and suburban deliveries. Cannot be sent by mail—Express only.



Mrs. E. P. Thom.



Betty Uprichard.

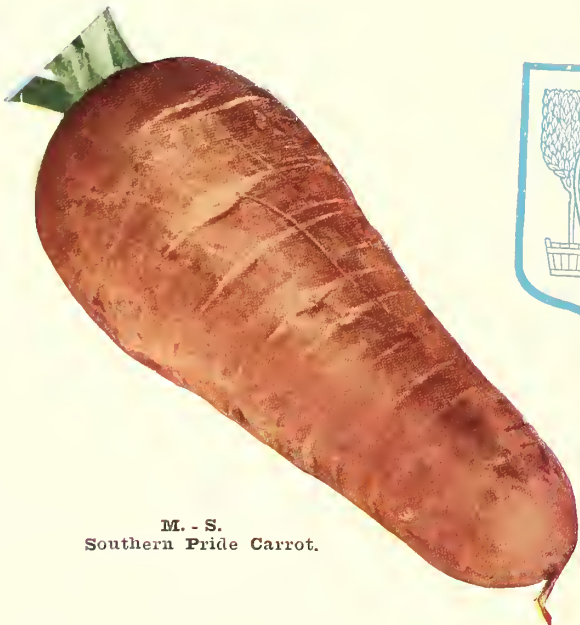


Pink Radiance.

M.-S. SEEDS STAND FOR QUALITY



M.-S.
Scarlet Globe
Radish.



M. - S.
Southern Pride Carrot.



M. - S.
Early Marvelous Beet.